

Novostavba lékárny a onkologie

Dokumentace pro provádění stavby

D. Dokumentace stavebních objektů

SO 03 - Novostavba lékárny a onkologie

D-03.2 Stavebně konstrukční řešení - betonové konstrukce

Statický výpočet

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A Úvod

Předmětem této části dokumentace je stavebně konstrukční řešení železobetonových konstrukcí novostavby lékárny a onkologie v Krnově ve fázi dokumentace pro provádění stavby.

Podkladem pro zpracování stavebně konstrukčního řešení projektu je architektonicko-stavební řešení a předchozí stupeň projektové dokumentace.

Tato část projektu neřeší nosné ocelové nebo dřevěné prvky konstrukce.

B Průvodní zpráva

B.1 Stručný popis objektu

Novostavba lékárny a onkologie je dvojpodlažní objekt poměrně složitého půdorysu tvaru otevřeného V.

Horní patro je na jižní straně oproti prvnímu patru vysunuto o 1,2 m.

Výťahová šachta uvnitř tříramenného schodiště je celá železobetonová, vlastní schodiště s mezipodestami uloženými na obvodové nosné zdi je od ní zvukově odděleno.

Objekt je založen na základové desce na roznášecím polštáři.

B.2 Popis konstrukčního řešení

Konstrukčně je každé patro řešeno zvlášť, jako stropní deska místy doplněná výztužnými trámy uložená na železobetonových sloupech a nosných zdech z cihelných tvárnic, které mají kromě nosné i zavětrovací funkci. Do železobetonové konstrukce je kotvena konstrukce přístřešků a vnějšího únikového schodiště pomocí předem zabetonovaných kotevních desek nebo pomocí chemických kotev.

Objekt je založen plošně na základové desce na roznášecím polštáři.

C Použité podklady

C.1 Použité normy a literatura

Konstrukce jsou navrženy dle platných ČSN a EN. Nebyly předepsány zvláštní tolerance na provádění konstrukcí, předpokládá se dodržení platných norem.

ČSN EN 1990	Zásady navrhování konstrukcí
ČSN EN 1991	EC 1 Zatížení konstrukcí
ČSN EN 1992	EC 2 Navrhování betonových konstrukcí
ČSN 73 1001-87	Zakládání staveb. Základová půda pod plošnými základy
ČSN P ENV 1997-1	Navrhování geotechnických konstrukcí
ČSN 72 1006	Kontrola hutnění zemin a sypanin
ČSN 73 1201	Navrhování betonových konstrukcí
ČSN EN 206-1	Beton – Část 1: Specifikace, vlastnosti, výroba a shoda
ČSN 73 6180	Hmoty pro ošetřování povrchu čerstvého betonu
Novák, Hořejší	Statické tabulky pro stavební praxi

C.2 Použité výpočetní programy

Výpočet železobetonových je proveden podle EC pomocí programu MB 2015, který je zkonstruován na principu metody konečných prvků. Ačkoliv jsou výstupy v německém jazyce, jsou pro odborné pracovníky lehce srozumitelné. Program provádí výpočet vnitřních sil a napětí v konstrukci pro jednotlivé zatěžovací stavy, jejich kombinace a posouzení prvků konstrukce.

Výstupem programu je rekapitulace zadávacích údajů a podklady pro vypracování schémat výztuže železobetonových prvků (izolinie plochy výztuže železobetonových desek a výztuž průvlaků).

D Statické schéma konstrukce

Nosný systém je navržen jako kombinace stěnového a sloupového skeletu se ztužujícími monolitickými průvlaky. Výtahová šachtice tvoří společně se schodištěm tuhé železobetonové jádro, které zajišťuje stabilitu objektu ve vodorovném směru. Doplňujícími stabilizačními prvky jsou nosné cihelné zdi, které mají kromě nosné i zavětrovací funkci. Objekt je založen na základové desce, která zajišťuje rovnoměrné sedání objektu.

E Údaje o materiálech a technologiích

Veškeré navržené konstrukční materiály nosných konstrukcí jsou popsány na příslušných výkresech.

Materiály konstrukčních prvků musí mít minimálně stejné vlastnosti jako zde uvedené :

Podkladní beton pod železobetonovými konstrukcemi

- Beton ČSN 206-1, Změna Z3, C12/15 - X0 - $D_{\max} = 22 \text{ mm}$

Železobeton základové desky

- Beton ČSN 206-1, Změna Z3, C25/30 – XC2 - F2 - $D_{\max} = 22 \text{ mm}$ - $C_{\text{nom}} = 35 \text{ mm}$

Železobeton ostatní

- Beton ČSN 206-1, Změna Z3, C30/37 - X0 - F3 - $D_{\max} = 16 \text{ mm}$ - $C_{\text{nom}} = 20 \text{ mm}$

Betonářská výztuž – B500B (10 505 - R) nebo KARI síť

Železobetonové konstrukce musí být bedněny výhradně do systémového bednění.

F Rekapitulace zatížení

Specifikace užitných, klimatických, sněhových a větrných podmínek v rámci stavebního pozemku:

Užitná zatížení:	Užitné kategorie C1 a C3 (začlenění dle ČSN EN 1991-1-1)
Klimatické podmínky:	Mírně teplá klimatická oblast (začlenění dle ČSN EN 1991-1-5:200)
Sněhové podmínky:	II. Sněhová oblast $s_k = 1,00 \text{ kN / m}^2$ (začlenění dle ČSN EN 1991-1-3:2005/Z1:2006)
Větrné podmínky	II. Větrová oblast - $v = 25 \text{ kN / m}^2$ (začlenění dle ČSN EN 1991-1-4:2007)
Seismicita	Pro danou oblast se neuvažuje (dle ČSN EN 1998-1)

G Výpočetní modely, výpočetní schémata

Výpočetní modely a schémata jsou součástí vlastního strojního výpočtu.

H Návrh a posouzení všech nosných prvků

Výpočet železobetonových je proveden podle EC pomocí programu MB 2015, který je zkonstruován na principu metody konečných prvků. Ačkoliv jsou výstupy v německém jazyce, jsou pro odborné pracovníky lehce srozumitelné. Program provádí výpočet vnitřních sil a napětí v konstrukci pro jednotlivé zatěžovací stavy, jejich kombinace a posouzení prvků konstrukce.

V tomto statickém výpočtu nejsou uvedeny veškeré výstupy strojního výpočtu jednotlivých stropních a stěnových konstrukcí. Výstupem programu je rekapitulace zadávacích údajů a podklady pro vypracování schémat výztuže železobetonových prvků (izolinie plochy výztuže železobetonových desek a výztuž průvlaků). Ostatní výstupy nejsou pro vypracování schémat výztuže potřebné, mohou však být kdykoli dodatečně vygenerovány.

Pro zprůhlednění výpočtu je pro každou stropní nebo základovou desku zpracován obsah výstupu strojního výpočtu.

Směry a úrovně jsou ve výpočtu označeny takto :

- r směr vodorovný (dle schématu)
- s směr svislý (dle schématu)
- u výztuž při spodním povrchu
- o výztuž při horním povrchu

H.1 Konstrukce střechy

Vodorovnou nosnou konstrukci tvoří železobetonová deska tl. 250 mm, která je zesílena v místě sloupů stropními trámy o výšce 250 nebo 180 mm pod stropní deskou. Deska je zvýšena v místě výtahové šachty.

Svislé nosné konstrukce tvoří zděné obvodové a vnitřní stěny doplněné monolitickými sloupy o rozměrech 250 x 250 mm nebo 200 x 250 mm. V místech soustředěného zatížení na stěnové konstrukce budou stěny nahrazeny betonovými sloupy.

Zatížení na střešní konstrukci

Zatížení stálé

Zatížení plošné	kN / m ²	normové	γ_u	výpočtové
Hydroizolace + separace	0,002*22	0,04	1,35	0,06
Tepelná izolace	0,26*0,2	0,05	1,35	0,07
Spádová vrstva	0,20*7	1,40	1,35	1,89
Podhled	0,3	0,30	1,35	0,41
Celkem stálé		1,79	1,35	2,43

Výpočet zatížení větrem

Výpočet je proveden podle ČSN EN 1991-1-4. Tlak větru je podle této normy rozdílný na ploše střechy podle zatěžovacího schématu.

Větrová oblast II

$$v_{b,0} = 25 \text{ m/s} \quad c_{dir} = 1,0 \quad c_{season} = 1,0$$

$$v_b = c_{dir} * c_{season} * v_{b,0} = 1,0 * 1,0 * 25 = 25 \text{ m/s}$$

Kategorie terénu

$$z_0 = 0,3 \text{ m} \quad z_{0,II} = 0,05 \text{ m}$$

Výška objektu

$$z = 8,57 \text{ m}$$

Součinitel terénu

$$k_r = 0,19 * (z_0 / z_{0,II})^{0,07} = 0,19 * (0,3 / 0,05)^{0,07} = 0,215$$

Drsnost terénu

$$c_r(z) = k_r * \ln(z / z_0) = 0,215 * \ln(8,57 / 0,3) = 0,721$$

Součinitel orografie

$$c_0(z) = 1,0$$

Střední rychlost větru

$$v_m(z) = c_r(z) * c_0(z) * v_b = 0,721 * 1,0 * 25 = 18,02 \text{ m/s}$$

Součinitel turbulence

$$k_1 = 1,0$$

Směrodatná odchylka turbulence

$$\sigma_v = k_r * v_b * k_1 = 0,215 * 25 * 1,0 = 5,38 \text{ m/s}$$

Intenzita turbulence

$$I_v(z) = \sigma_v / v_m(z) = 5,38 / 18,02 = 0,299$$

Měrná hmotnost vzduchu

$$\rho = 1,25 \text{ kg/m}^3$$

Maximální dynamický tlak

$$q_p(z) = [1 + 7 * I_v(z)] * 0,5 * \rho * v_m^2(z) = (1 + 7 * 0,299) * 0,5 * 1,25 * 18,02^2 = 627,7 \text{ N/m}^2 = 0,63 \text{ kN/m}^2$$

Zatížení nahodilé

Zatížení plošné	kN / m ²	normové	γ_u	výpočtové
Sníh	1,00*0,8	0,80	1,50	1,20
Vítr	± 0,2*0,63	± 0,13	1,50	± 0,19

Zatížení atikou

Zatížení přímkové	kN / m	normové	γ_u	výpočtové
Atika	0,8*2,8	2,24	1,35	3,02

Přehled strojního výstupu

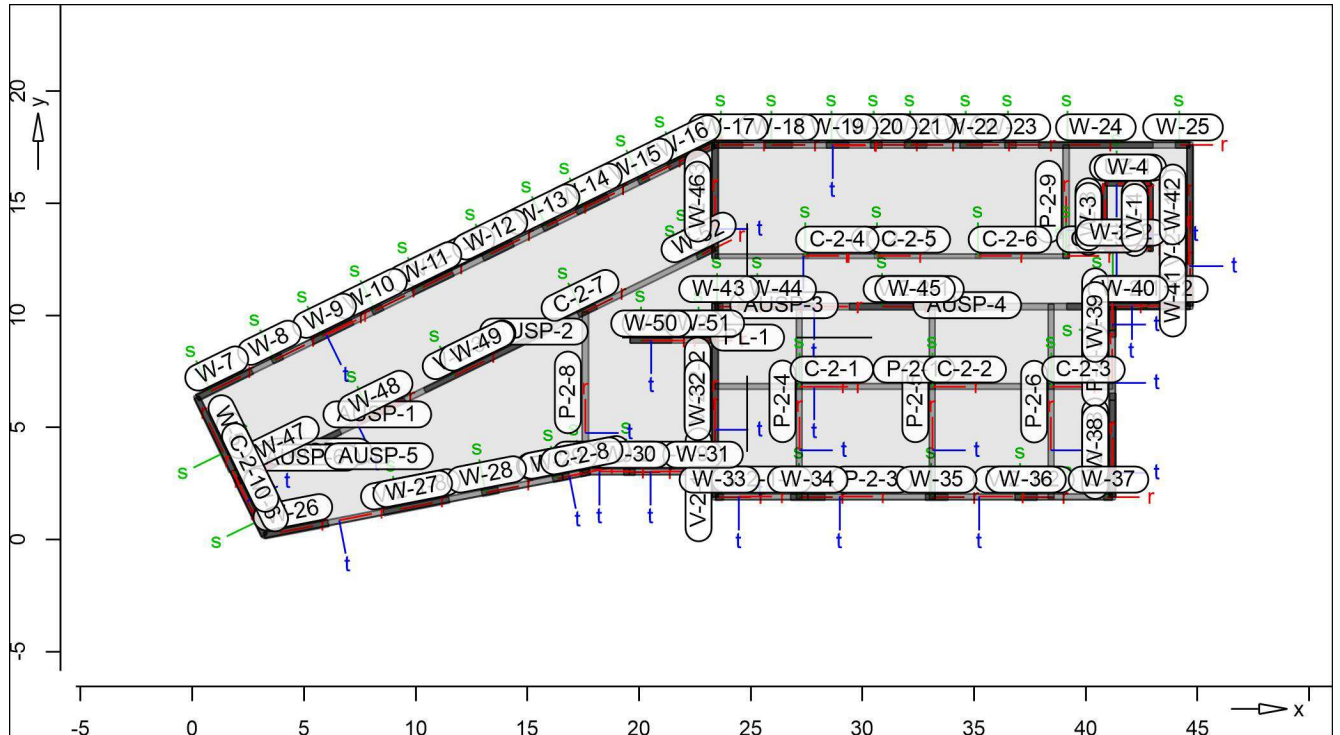
str	Popis.
8 - 9	Schéma konstrukce, materiál a souřadnice desky a otvorů
9 - 10	Materiál, rozměry a souřadnice průvlaků a věnců
10 - 11	Materiál, rozměry a souřadnice sloupů
11 - 14	Materiál, rozměry a souřadnice betonových a zděných stěn
14	Materiály – beton, betonářská ocel, zdivo
14 - 16	Konstrukční prvky – rozměry, plocha, objem
16	Vlastní hmotnost – schéma
17	Vlastní hmotnost – hodnoty
17	Ostatní zatížení – schéma
18	Ostatní zatížení – hodnoty
18 - 19	Výpis typů zatížení
19 - 20	Svislé pružné deformace
21	Svislé deformace po smrštění a dotvarování
22	Parametry vyztužení
22	Kombinace zatížení
23	Návrhová výztuž ve směru x při dolním povrchu
27	Návrhová výztuž ve směru y při dolním povrchu
31	Návrhová výztuž ve směru x při horním povrchu
34	Návrhová výztuž ve směru y při horním povrchu
37 - 39	Průvlaky a věnce - vlastnosti
39 - 61	Podélná a smyková výztuž průvlaků
62 – 63	Zatížení do sloupů
64 – 71	Zatížení do stěn

Pos.System

Positionsplan

System

Übersicht der Bauteil-Positionen



Plattenbereiche

Position	Material	Ges.	Art	h [cm]
PL-1	C 30/37#	Q	iso	25.00

iso : isotropes Material
 Q : Quarzit
 # : Querdehnzahl wurde für diese Position zu 0 gesetzt.

Koordinaten

Position	Koordinaten in [m]			
PL-1	x	0.05	23.31	44.78
	y	6.38	17.72	17.72
	x	41.31	41.31	23.29
	y	10.28	1.78	1.78
	x	17.79	3.14	
	y	2.89	0.05	

Aussparungen

Position	Koordinaten in [m]			
AUSP-1	x	8.22	8.40	8.34
	y	5.46	5.55	5.68
AUSP-2	x	15.08	15.57	15.50
	y	9.08	9.32	9.45
AUSP-3	x	26.39	26.39	26.59
	y	10.54	10.34	10.34
AUSP-4	x	34.59	34.59	34.79
	y	10.54	10.34	10.34
AUSP-5	x	7.90	8.80	8.80
	y	3.40	3.40	4.00
AUSP-6	x	5.17	5.12	5.02
	y	3.64	3.72	3.72
AUSP-7	x	5.02	5.12	
	y	3.55	3.55	

Position	Koordinaten in [m]			
	y	3.91	4.00	4.00
	x	5.57	5.67	
	y	3.82	3.82	3.91

Unterzüge

Position	Art	Material	Ges.	$l_{(r)}$ [m]	$b_{(t)}/h_{(s)}$ [cm]
P-2-1	UZ	C 30/37	Q	17.80	25.0/25.0
P-2-2	UZ	C 30/37	Q	15.85	20.0/18.0
P-2-3	UZ	C 30/37	Q	5.70	26.0/87.0
P-2-4, P-2-5	UZ	C 30/37	Q	8.75	25.0/18.0
P-2-6	UZ	C 30/37	Q	8.73	25.0/18.0
P-2-7	UZ	C 30/37	Q	3.10	26.0/43.0
P-2-8	UZ	C 30/37	Q	7.20	30.0/18.0
P-2-9	UZ	C 30/37	Q	5.07	30.0/18.0
P-2-10-1	UZ	C 30/37	Q	1.23	26.0/87.0
P-2-10-2	UZ	C 30/37	Q	1.78	26.0/87.0
UZ-1	UZ	C 30/37	Q	2.07	20.0/61.0
UZ-2	UZ	C 30/37	Q	2.07	20.0/190.0
UZ-3	UZ	C 30/37	Q	2.90	20.0/61.0
UZ-4	UZ	C 30/37	Q	3.00	20.0/61.0
V-2-1-1	UZ	C 30/37	Q	4.12	26.0/18.0
V-2-1-2	UZ	C 30/37	Q	7.93	26.0/18.0
V-2-1-3	UZ	C 30/37	Q	4.33	26.0/18.0
V-2-1-4	UZ	C 30/37	Q	1.07	26.0/18.0
V-2-1-5	UZ	C 30/37	Q	25.72	26.0/18.0
V-2-1-6	UZ	C 30/37	Q	21.29	26.0/18.0
V-2-1-7	UZ	C 30/37	Q	6.89	26.0/18.0
V-2-1-8	UZ	C 30/37	Q	13.60	26.0/18.0
V-2-1-9	UZ	C 30/37	Q	3.84	26.0/18.0
V-2-1-10	UZ	C 30/37	Q	1.11	26.0/18.0
V-2-1-11	UZ	C 30/37	Q	7.18	26.0/18.0
V-2-1-12	UZ	C 30/37	Q	3.49	26.0/40.0
V-2-2-1	UZ	C 30/37	Q	17.78	30.0/18.0
V-2-2-2	UZ	C 30/37	Q	7.54	30.0/18.0
V-2-2-3	UZ	C 30/37	Q	5.22	30.0/18.0
V-2-3-1	UZ	C 30/37	Q	23.78	25.0/18.0
V-2-3-2	UZ	C 30/37	Q	3.80	25.0/18.0

UZ : Unterzug
Q : Quarzit

Koordinaten

Position	Koordinaten in [m]	
P-2-1	x	23.41
	y	6.83
P-2-2	x	23.41
	y	12.64
P-2-3	x	27.55
	y	1.91
P-2-4	x	27.18
	y	1.79
P-2-5	x	33.13
	y	1.79
P-2-6	x	38.44
	y	1.79
P-2-7	x	41.18
	y	6.22
P-2-8	x	17.60
	y	2.97
P-2-9	x	39.12
	y	12.54
P-2-10-1	x	16.58
	y	2.79

Position	Koordinaten in [m]		
P-2-10-2	x	17.79	19.57
	y	3.03	3.02
UZ-1	x	40.85	42.93
	y	15.86	15.86
UZ-2	x	40.85	42.92
	y	12.96	12.96
UZ-3	x	40.85	40.85
	y	12.96	15.86
UZ-4	x	42.92	42.92
	y	12.86	15.86
V-2-1-1	x	23.43	27.55
	y	1.91	1.91
V-2-1-2	x	33.25	41.19
	y	1.91	1.91
V-2-1-3	x	41.18	41.18
	y	1.89	6.22
V-2-1-4	x	41.18	41.18
	y	9.32	10.39
V-2-1-5	x	0.22	23.34
	y	6.32	17.59
V-2-1-6	x	23.34	44.64
	y	17.59	17.59
V-2-1-7	x	3.22	0.21
	y	0.17	6.37
V-2-1-8	x	3.24	16.58
	y	0.20	2.79
V-2-1-9	x	19.57	23.41
	y	3.02	3.02
V-2-1-10	x	23.43	23.43
	y	1.89	3.00
V-2-1-11	x	44.66	44.66
	y	10.41	17.59
V-2-1-12	x	41.18	44.68
	y	10.41	10.41
V-2-2-1	x	23.41	41.18
	y	10.39	10.39
V-2-2-2	x	23.41	23.41
	y	3.00	10.54
V-2-2-3	x	23.41	23.41
	y	12.54	17.76
V-2-3-1	x	2.04	23.41
	y	2.58	13.00
V-2-3-2	x	19.61	23.41
	y	8.88	8.88

Auflager

Übersicht der Auflager-Positionen

Stützenlager

Stahlbeton Position	Material	Ges.	Länge [m]	$b_{(r)}/h_{(s)}$ [cm]
C-2-1..C-2-3	C 30/37	Q	3.43	25.0/25.0
C-2-4..C-2-6	C 30/37	Q	3.43	25.0/20.0
C-2-9	C 30/37	Q	3.43	27.5/20.0

Q : Quarzit

Elastizitäten

	$K_{T, t}$ [kN/m]	$K_{R, r}$ [kNm/rad]	$K_{R, s}$ [kNm/rad]
C-2-1..C-2-3	+/- 6.01E+005	+/- 9.40E+003	+/- 9.40E+003
C-2-4..C-2-6	+/- 4.81E+005	+/- 4.81E+003	+/- 7.52E+003
C-2-9	+/- 5.29E+005	+/- 5.29E+003	+/- 1.00E+004

Koordinaten

Position	X [m]	Y [m]	α [°]
C-2-1	27.18	6.83	0.0
C-2-2	33.13	6.83	0.0
C-2-3	38.45	6.83	0.0
C-2-4	27.45	12.64	0.0
C-2-5	30.65	12.64	0.0
C-2-6	35.18	12.64	0.0
C-2-9	39.12	12.64	0.0

wandlager

Stahlbeton Position	Material	Länge [m]	Höhe [m]	Dicke [cm]
C-2-7	<i>C 30/37</i>	0.90	3.50	25.0
C-2-8	<i>C 30/37</i>	0.43	3.50	26.0
C-2-10	<i>C 30/37</i>	0.40	3.00	26.0
W-1	<i>C 30/37</i>	3.00	3.50	20.0
W-2	<i>C 30/37</i>	0.47	2.21	20.0
W-3	<i>C 30/37</i>	2.90	3.50	20.0
W-4	<i>C 30/37</i>	2.07	3.50	20.0

Mauerwerk Position	Material	Länge [m]	Höhe [m]	Dicke [cm]
W-5	<i>HLZW 10 IIa</i>	3.65	3.50	30.0
W-6	<i>HLZW 10 III</i>	2.80	3.00	30.0
W-7	<i>HLZW 10 IIa</i>	2.74	3.50	30.0
W-8	<i>HLZW 10 IIa</i>	0.50	3.50	30.0
W-9	<i>HLZW 10 IIa</i>	2.00	3.50	30.0
W-10	<i>HLZW 10 IIa</i>	0.50	3.50	30.0
W-11	<i>HLZW 10 IIa</i>	2.00	3.50	30.0
W-12	<i>HLZW 10 IIa</i>	1.50	3.50	30.0
W-13	<i>HLZW 10 IIa</i>	0.68	3.50	30.0
W-14	<i>HLZW 10 IIa</i>	1.58	3.50	30.0
W-15	<i>HLZW 10 IIa</i>	0.50	3.50	30.0
W-16	<i>HLZW 10 IIa</i>	2.25	3.50	30.0
W-17	<i>HLZW 10 IIa</i>	1.28	3.50	30.0
W-18	<i>HLZW 10 IIa</i>	1.25	3.50	30.0
W-19	<i>HLZW 10 IIa</i>	1.00	3.50	30.0
W-20	<i>HLZW 10 IIa</i>	0.50	3.50	30.0
W-21, W-22	<i>HLZW 10 IIa</i>	1.00	3.50	30.0
W-23	<i>HLZW 10 IIa</i>	0.50	3.50	30.0
W-24	<i>HLZW 10 IIa</i>	5.15	3.50	30.0
W-25	<i>HLZW 10 IIa</i>	0.65	3.50	30.0
W-26	<i>HLZW 10 IIa</i>	2.93	3.50	30.0
W-27	<i>HLZW 10 IIa</i>	3.00	3.50	30.0
W-28, W-29	<i>HLZW 10 IIa</i>	0.75	3.50	30.0
W-30	<i>HLZW 10 IIa</i>	0.50	3.50	30.0
W-31	<i>HLZW 10 IIa</i>	1.09	3.50	30.0
W-32	<i>HLZW 10 IIa</i>	8.65	3.50	30.0
W-33	<i>HLZW 10 IIa</i>	0.38	3.50	30.0
W-34	<i>HLZW 10 IIa</i>	1.54	3.50	30.0
W-35, W-36	<i>HLZW 10 IIa</i>	1.00	3.50	30.0
W-37	<i>HLZW 10 IIa</i>	0.38	3.50	30.0
W-38	<i>HLZW 10 IIa</i>	4.63	3.50	30.0
W-39	<i>HLZW 10 IIa</i>	1.37	3.50	30.0
W-40	<i>HLZW 10 IIa</i>	5.54	3.50	30.0
W-41	<i>HLZW 10 IIa</i>	0.90	3.50	30.0
W-42	<i>HLZW 10 IIa</i>	5.32	3.50	30.0
W-43	<i>HLZW 10 IIa</i>	0.35	3.50	30.0
W-44	<i>HLZW 10 IIa</i>	3.37	3.50	30.0
W-45	<i>HLZW 10 IIa</i>	5.88	3.50	30.0

Mauerwerk Position	Material	Länge [m]	Höhe [m]	Dicke [cm]
W-46	HLZW 10 I Ia	5.07	3.50	30.0
W-47	HLZW 10 I Ia	5.12	3.50	25.0
W-48	HLZW 10 I Ia	2.21	3.50	25.0
W-49	HLZW 10 I Ia	5.96	3.50	25.0
W-50	HLZW 10 III	1.86	3.50	25.0
W-51	HLZW 10 III	0.96	3.50	25.0
W-52	HLZW 10 III	0.91	3.50	25.0

Elastizitäten

	$K_{T, t}$ [kN/m ²]	$K_{R, r}$ [kNm/rad/m]	$K_{R, s}$ [kNm/rad/m]
C-2-7	+/- 2.36E+006	+/- 3.68E+004	+/- 5.89E+005
C-2-8	+/- 2.45E+006	+/- 4.14E+004	+/- 6.13E+005
C-2-10	+/- 2.86E+006	+/- 4.83E+004	+/- 7.15E+005
W-1	+/- 1.89E+006	+/- 1.89E+004	+/- 4.71E+005
W-2	+/- 2.99E+006	+/- 2.99E+004	+/- 7.47E+005
W-3, W-4	+/- 1.89E+006	+/- 1.89E+004	+/- 4.71E+005
W-5	+/- 3.38E+005	frei	frei
W-6	+/- 4.41E+005	frei	frei
W-7..W-46	+/- 3.38E+005	frei	frei
W-47..W-49	+/- 2.82E+005	frei	frei
W-50..W-52	+/- 3.15E+005	frei	frei

Koordinaten

Position	Koordinaten in [m]	
C-2-7	x	17.28 18.09
	y	10.01 10.41
C-2-8	x	17.37 17.79
	y	2.94 3.02
C-2-10	x	1.82 1.99
	y	3.06 2.70
W-1	x	42.92 42.92
	y	12.86 15.86
W-2	x	41.32 40.85
	y	12.96 12.96
W-3	x	40.85 40.86
	y	12.96 15.86
W-4	x	40.86 42.93
	y	15.86 15.86
W-5	x	1.80 0.21
	y	3.05 6.33
W-6	x	3.21 1.98
	y	0.17 2.69
W-7	x	0.21 2.67
	y	6.33 7.53
W-8	x	3.57 4.02
	y	7.97 8.19
W-9	x	5.36 7.16
	y	8.84 9.72
W-10	x	8.06 8.51
	y	10.16 10.38
W-11	x	9.86 11.66
	y	11.04 11.91
W-12	x	13.00 14.35
	y	12.57 13.23
W-13	x	15.70 16.32
	y	13.89 14.19
W-14	x	17.20 18.62
	y	14.62 15.31
W-15	x	19.97 20.42
	y	15.97 16.19

Position	Koordinaten in [m]		
W-16	x	21.32	23.34
	y	16.63	17.61
W-17	x	23.34	24.63
	y	17.61	17.61
W-18	x	25.63	26.88
	y	17.61	17.61
W-19	x	28.38	29.38
	y	17.61	17.61
W-20	x	30.38	30.88
	y	17.61	17.61
W-21	x	31.88	32.88
	y	17.61	17.61
W-22	x	34.38	35.38
	y	17.61	17.61
W-23	x	36.38	36.88
	y	17.61	17.61
W-24	x	37.88	43.03
	y	17.61	17.61
W-25	x	44.03	44.68
	y	17.61	17.61
W-26	x	3.21	6.09
	y	0.17	0.73
W-27	x	8.54	11.49
	y	1.21	1.78
W-28	x	12.96	13.70
	y	2.06	2.21
W-29	x	16.15	16.89
	y	2.68	2.83
W-30	x	19.32	19.82
	y	3.00	3.00
W-31	x	22.32	23.41
	y	3.00	3.00
W-32	x	23.41	23.41
	y	1.89	10.54
W-33	x	23.41	23.78
	y	1.89	1.89
W-34	x	26.78	28.32
	y	1.89	1.89
W-35	x	32.82	33.82
	y	1.89	1.89
W-36	x	36.82	37.82
	y	1.89	1.89
W-37	x	40.82	41.21
	y	1.89	1.89
W-38	x	41.21	41.21
	y	1.89	6.52
W-39	x	41.21	41.21
	y	9.02	10.39
W-40	x	39.14	44.68
	y	10.39	10.39
W-41	x	44.68	44.68
	y	10.39	11.29
W-42	x	44.68	44.68
	y	12.29	17.61
W-43	x	23.41	23.76
	y	10.39	10.39
W-44	x	24.45	27.82
	y	10.39	10.39
W-45	x	29.41	35.30
	y	10.39	10.39
W-46	x	23.41	23.41

Position	Koordinaten in [m]		
	y	12.54	17.61
W-47	x	2.04	6.63
	y	2.58	4.82
W-48	x	7.53	9.52
	y	5.26	6.23
W-49	x	10.40	15.76
	y	6.66	9.27
W-50	x	19.61	21.46
	y	8.88	8.88
W-51	x	22.44	23.41
	y	8.88	8.88
W-52	x	22.59	23.41
	y	12.60	13.00

Mat./Querschnitt

Material- und Querschnittswerte

Stahlbeton DIN EN 1992-1-1

Position	Material	μ	γ [kN/m ³]	G-Modul E-Modul [N/mm ²]
P-2-1..P-2-9, P-2-10-1, P-2-10-2, UZ-1..UZ-4, V-2-1-1..V-2-1-12, V-2-2-1..V-2-2-3, V-2-3-1, V-2-3-2, C-2-1..C-2-6, C-2-9, C-2-7, C-2-8, C-2-10, W-1..W-4	C 30/37	0.20	25.00	13750
	Quarzit			33000
PL-1	C 30/37	0.00	25.00	16500
	Quarzit			33000

Betonstahl DIN EN 1992-1-1

Material	μ	γ [kN/m ³]	G-Modul [N/mm ²]	E-Modul [N/mm ²]
B 500MA	0.30	78.50	77000	200000
B 500SA	0.30	78.50	77000	200000
B 500SB	0.30	78.50	77000	200000

Mauerwerk DIN EN 1996-1-1

Position	Material	ρ [kg/dm ³]	γ [kN/m ³]	E-Modul [N/mm ²]
W-5, W-7..W-49	HLZW 10 IIa	2.83	24.00	3941
W-6	HLZW 10 III	2.00	20.00	4410
W-50..W-52	HLZW 10 III	2.83	24.00	4410

Auswertung

Auswertung des Modells

Stahlbeton-Flächen

Position	d [cm]	A [m ²]	V [m ³]
PL-1	25.0	544.81	136.20

Stahlbeton-Unterzug

Position	$b_{(t)}/h_{(s)}$ [cm]	A [m ²]	V [m ³]
P-2-1	25.0/25.0	17.80	1.11
P-2-2	20.0/18.0	12.05	0.57
P-2-3	26.0/87.0	12.88	1.29
P-2-4, P-2-5	25.0/18.0	7.53	0.39
P-2-6	25.0/18.0	7.50	0.39
P-2-7	26.0/43.0	4.28	0.35
P-2-8	30.0/18.0	6.91	0.39
P-2-9	30.0/18.0	4.87	0.27
P-2-10-1	26.0/87.0	2.78	0.28
P-2-10-2	26.0/87.0	4.01	0.40
UZ-1	20.0/61.0	3.36	0.25
UZ-2	20.0/190.0	8.69	0.79

Position	$b_{(t)}/h_{(s)}$ [cm]	A [m ²]	V [m ³]
UZ-3	20.0/61.0	4.70	0.35
UZ-4	20.0/61.0	4.86	0.37
V-2-1-1	26.0/18.0	3.62	0.19
V-2-1-2	26.0/18.0	6.98	0.37
V-2-1-3	26.0/18.0	3.81	0.20
V-2-1-4	26.0/18.0	0.94	0.05
V-2-1-5	26.0/18.0	22.63	1.20
V-2-1-6	26.0/18.0	18.74	1.00
V-2-1-7	26.0/18.0	6.06	0.32
V-2-1-8	26.0/18.0	11.97	0.64
V-2-1-9	26.0/18.0	3.38	0.18
V-2-1-10	26.0/18.0	0.98	0.05
V-2-1-11	26.0/18.0	6.32	0.34
V-2-1-12	26.0/40.0	4.61	0.36
V-2-2-1	30.0/18.0	17.06	0.96
V-2-2-2	30.0/18.0	7.24	0.41
V-2-2-3	30.0/18.0	5.01	0.28
V-2-3-1	25.0/18.0	20.45	1.07
V-2-3-2	25.0/18.0	3.27	0.17

Stützenlager

Position	$b_{(r)}/h_{(s)}$ [cm]	A [m ²]	V [m ³]
C-2-1..C-2-3	25.0/25.0	3.43	0.21
C-2-4..C-2-6	25.0/20.0	3.09	0.17
C-2-9	27.5/20.0	3.26	0.19

wandlager

Position	b/h [cm]	A [m ²]	V [m ³]
C-2-7	25.0/350.0	6.75	0.79
C-2-8	26.0/350.0	3.20	0.39
C-2-10	26.0/300.0	2.61	0.31
W-1	20.0/350.0	22.20	2.10
W-2	20.0/221.0	2.27	0.21
W-3	20.0/350.0	21.46	2.03
W-4	20.0/350.0	15.32	1.45

Position	b/h [cm]	A [m ²]	V [m ³]
W-5	30.0/350.0	27.73	3.83
W-6	30.0/300.0	18.51	2.52
W-7	30.0/350.0	20.82	2.88
W-8	30.0/350.0	3.80	0.52
W-9	30.0/350.0	15.20	2.10
W-10	30.0/350.0	3.80	0.52
W-11	30.0/350.0	15.20	2.10
W-12	30.0/350.0	11.40	1.58
W-13	30.0/350.0	5.21	0.72
W-14	30.0/350.0	12.05	1.66
W-15	30.0/350.0	3.80	0.52
W-16	30.0/350.0	17.12	2.36
W-17	30.0/350.0	9.76	1.35
W-18	30.0/350.0	9.50	1.31
W-19	30.0/350.0	7.60	1.05
W-20	30.0/350.0	3.80	0.53
W-21, W-22	30.0/350.0	7.60	1.05
W-23	30.0/350.0	3.80	0.53
W-24	30.0/350.0	39.14	5.41

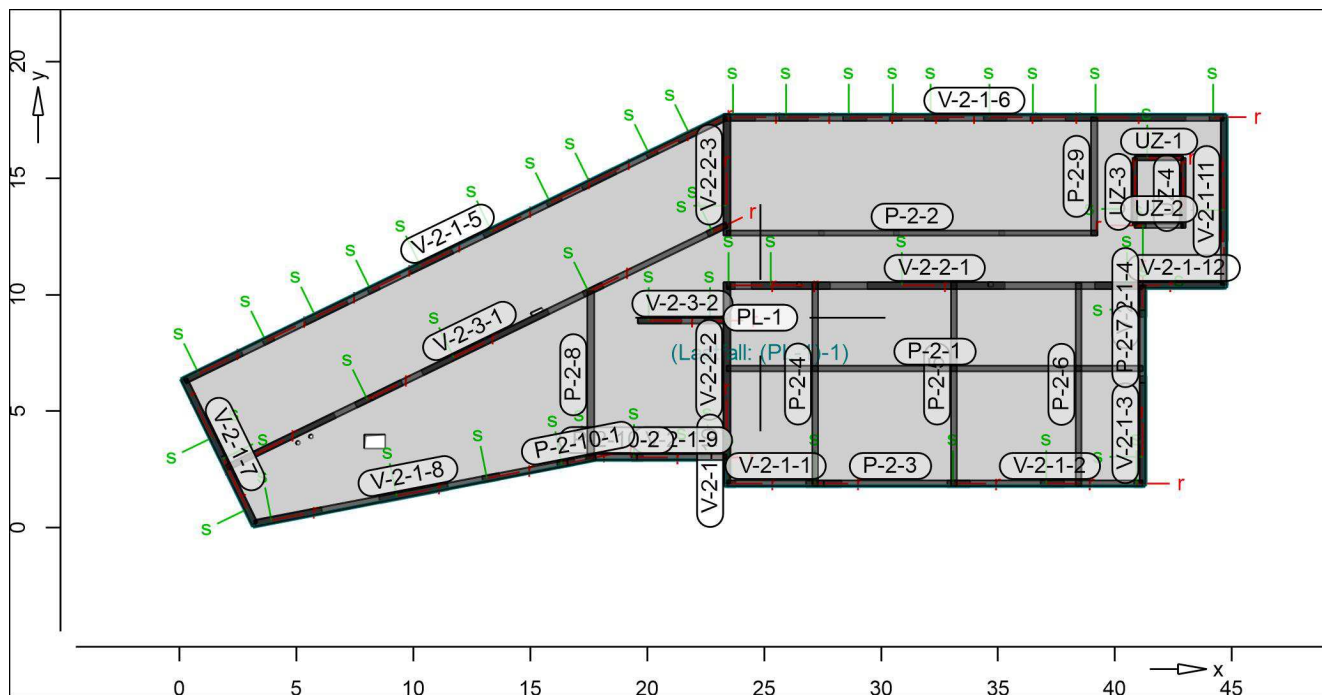
Mauerwerk Position	b/h [cm]	A [m ²]	V [m ³]
W-25	30.0/350.0	4.94	0.68
W-26	30.0/350.0	22.30	3.08
W-27	30.0/350.0	22.80	3.15
W-28, W-29	30.0/350.0	5.70	0.79
W-30	30.0/350.0	3.80	0.53
W-31	30.0/350.0	8.29	1.14
W-32	30.0/350.0	65.74	9.08
W-33	30.0/350.0	2.86	0.40
W-34	30.0/350.0	11.70	1.62
W-35, W-36	30.0/350.0	7.60	1.05
W-37	30.0/350.0	2.92	0.40
W-38	30.0/350.0	35.19	4.86
W-39	30.0/350.0	10.41	1.44
W-40	30.0/350.0	42.10	5.82
W-41	30.0/350.0	6.84	0.95
W-42	30.0/350.0	40.43	5.59
W-43	30.0/350.0	2.66	0.37
W-44	30.0/350.0	25.61	3.54
W-45	30.0/350.0	44.73	6.18
W-46	30.0/350.0	38.53	5.32
W-47	25.0/350.0	38.37	4.48
W-48	25.0/350.0	16.57	1.93
W-49	25.0/350.0	44.73	5.22
W-50	25.0/350.0	13.92	1.62
W-51	25.0/350.0	7.23	0.84
W-52	25.0/350.0	6.80	0.79

Belastungen

Belastungen im Modell

Positionslasten

Positionsbezogene Flächen- und Linienlasten



Flächenpositionen

Position	Lastfall	p [kN/m ²]
PL-1	LF-1	Eg -6.25
	LF-1	-1.79
	(PL-1)-1	-0.93

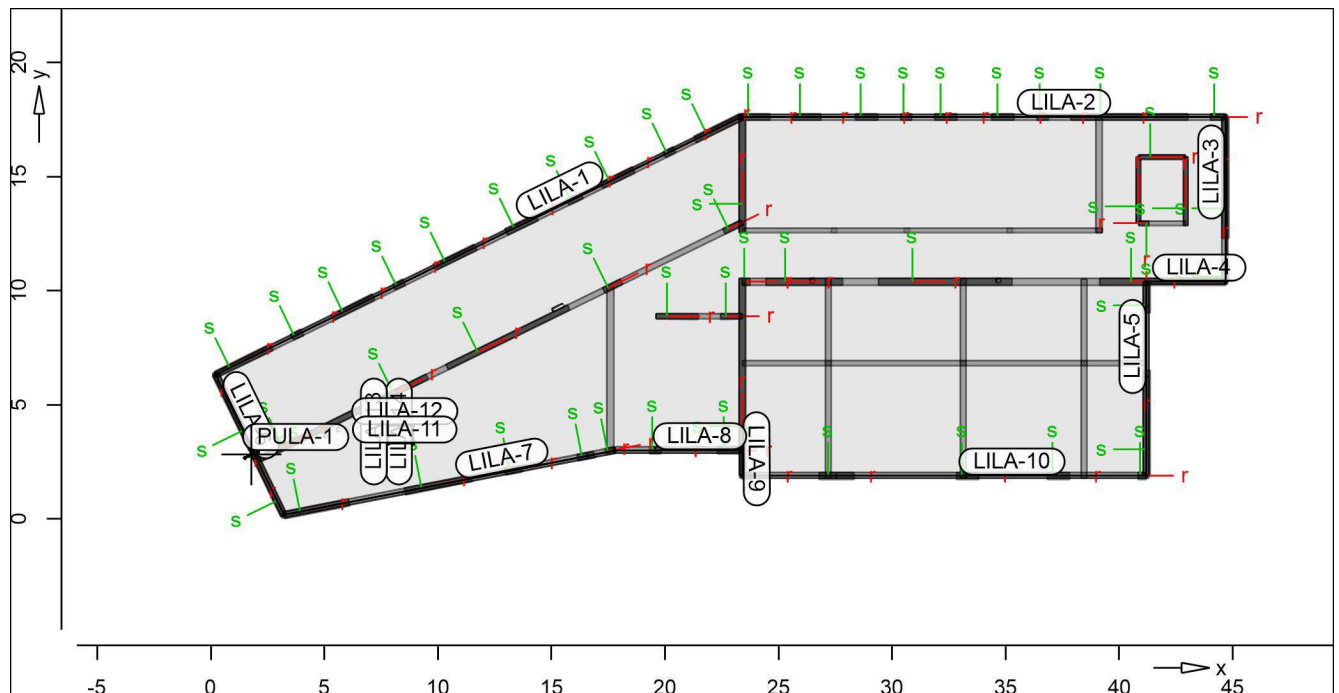
Eg : Eigengewicht

Streckenpositionen

Position	Lastfall	p [kN/m]
P-2-1	LF-1	Eg -1.56
P-2-2	LF-1	Eg -0.90
P-2-3	LF-1	Eg -5.66
P-2-4..P-2-6	LF-1	Eg -1.13
P-2-7	LF-1	Eg -2.80
P-2-8, P-2-9	LF-1	Eg -1.35
P-2-10-1, P-2-10-2	LF-1	Eg -5.66
UZ-1	LF-1	Eg -3.05
UZ-2	LF-1	Eg -9.50
UZ-3, UZ-4	LF-1	Eg -3.05
V-2-1-1..V-2-1-11	LF-1	Eg -1.17
V-2-1-12	LF-1	Eg -2.60
V-2-2-1..V-2-2-3	LF-1	Eg -1.35
V-2-3-1, V-2-3-2	LF-1	Eg -1.13

Eg : Eigengewicht

Lastplan



Punktlasten
beliebig

Position	Lastfall	Art	F/M [kN]/[kNm]
PULA-1	$\alpha = 26.0^\circ$		
	LF-2	Pz'	-3.13
	LF-2	Mx'	-0.77
	LF-4	Pz'	1.25
	LF-4	Mx'	0.31

Koordinaten

Position	X [m]	Y [m]
PULA-1	1.79	2.82

Linienlasten
lokal

Position	Lastfall	Art	F _A /M _A [kN/m]/[kNm/m]	F _E /M _E [kN/m]/[kNm/m]
LILA-1..LILA-10	<i>Atika</i>			
	LF-1	pt	-2.24	-2.24
LILA-11..LILA-14	LF-1	pt	-3.15	-3.15

Koordinaten

Position	Koordinaten in [m]	
LILA-1	x	0.21
	y	6.33
LILA-2	x	23.34
	y	17.61
LILA-3	x	44.68
	y	10.39
LILA-4	x	41.21
	y	10.39
LILA-5	x	41.21
	y	1.89
LILA-6	x	3.21
	y	0.17
LILA-7	x	3.21
	y	0.17
LILA-8	x	17.79
	y	3.00
LILA-9	x	23.41
	y	1.89
LILA-10	x	23.41
	y	1.89
LILA-11	x	7.80
	y	3.30
LILA-12	x	7.80
	y	4.10
LILA-13	x	7.80
	y	3.30
LILA-14	x	8.90
	y	3.30

Einwirkungen

Einwirkungen nach DIN EN 1990

Gk

Ständige Einwirkungen

Pk

Belastungen infolge Vorspannung

Qk.N

Kategorie A - wohn- und Aufenthaltsräume

Qk.S

Schnee- und Eislasten für Orte bis NN + 1000 m

Qk.W

Windlasten

Qk.T

Temperatureinwirkungen

AEd

Erdbebeneinwirkung

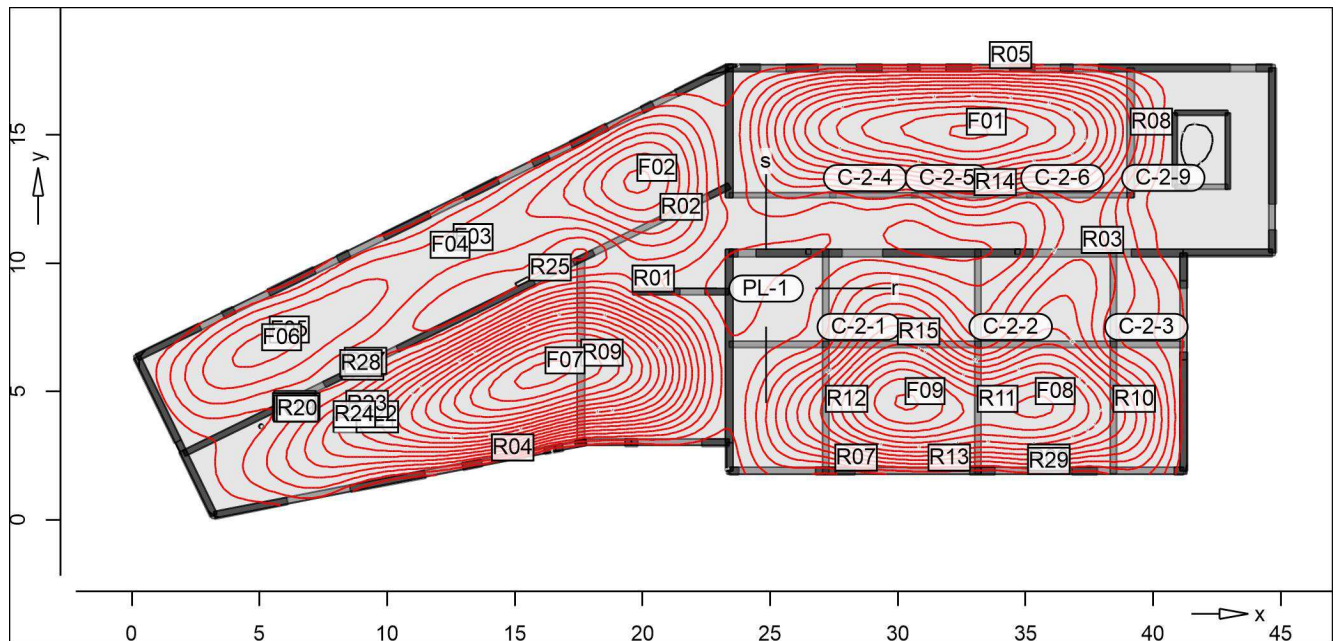
Lastfälle

Lastfälle und deren Zuordnung zu den Einwirkungen

Gk	LF-1
Qk.N	LF-2
	LG-1 (LF-3)
Qk.S	(PL-1)-1
Qk.W	LF-4
Pk	VOR-1
Qk.T	TEMP-1

Pos. PL-1 - Plattenverformung

aus Lastkombination LK-1

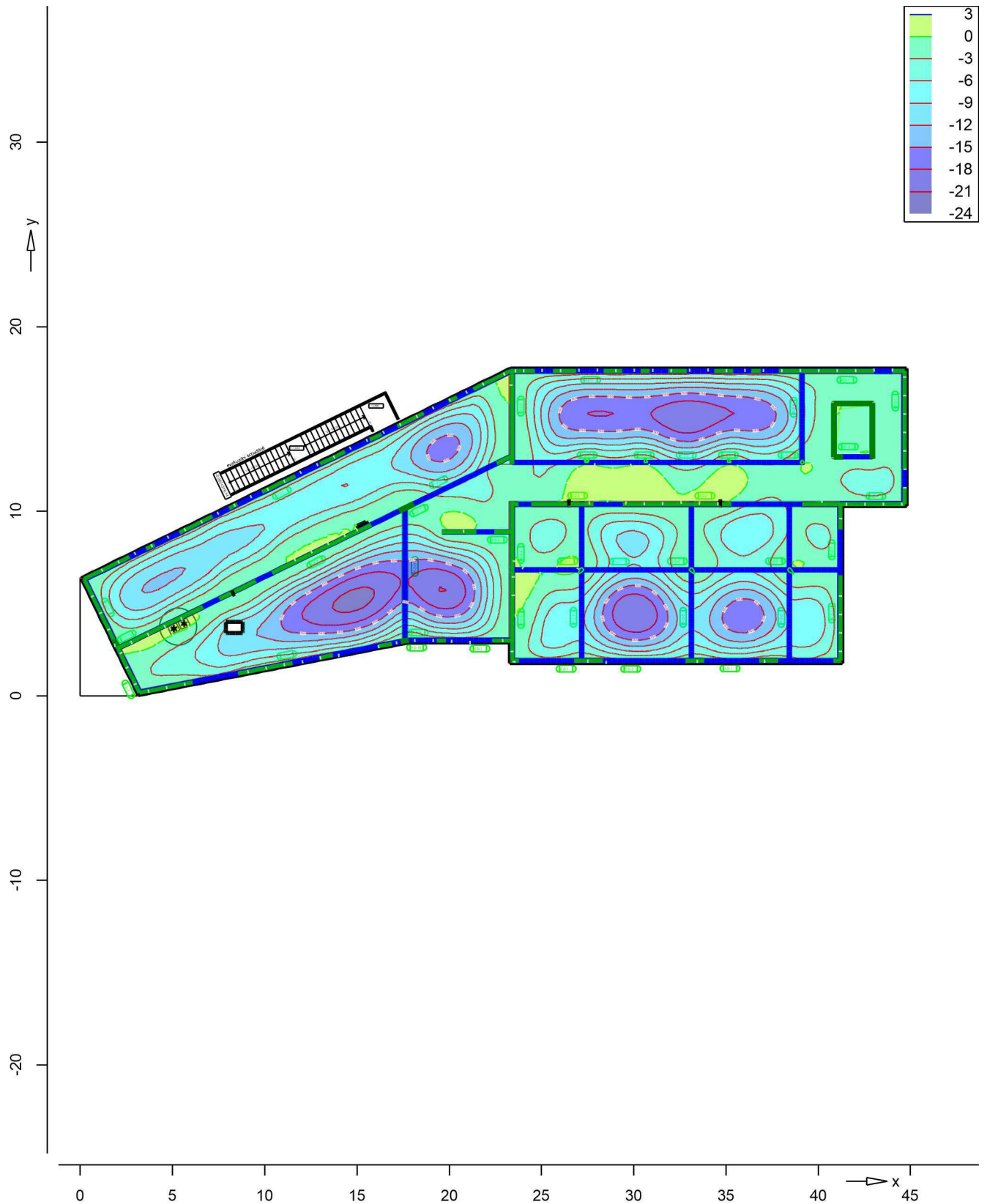


Isolinienstufen = 0.10 mm

Markierung der lokalen Extrema erst ab
Verformungen > 0.20 mm

Punkt	x [m]	y [m]	max uz [mm]
C-2-1			-0.38
C-2-2			-0.49
C-2-3			-0.37
C-2-4			-0.26
C-2-5			-0.31
C-2-6			-0.36
C-2-9			-0.22
F01	32.70	15.00	-1.42
F02	19.80	13.20	-0.82
F03	12.60	10.50	-0.34
F04	11.70	10.20	-0.34
F05	5.40	6.90	-0.53
F06	5.10	6.60	-0.53
F07	16.20	5.70	-1.74
F08	35.40	4.50	-1.33
F09	30.30	4.50	-1.52
R01	19.61	8.88	-0.38

Punkt	x [m]	y [m]	max uz [mm]
R02	20.70	11.68	-0.59
R03	37.20	10.39	-0.48
R04	14.10	2.31	-0.26
R05	33.60	17.59	-0.21
R06	35.10	1.91	-0.45
R07	27.55	1.91	-0.27
R08	39.12	15.00	-0.50
R09	17.60	6.00	-1.67
R10	38.44	4.20	-0.90
R11	33.13	4.20	-1.26
R12	27.18	4.20	-0.95
R13	31.20	1.91	-0.43
R14	33.00	12.64	-0.58
R15	30.00	6.83	-1.00
R16	5.72	3.91	-0.23
R17	5.57	4.00	-0.21
R18	5.52	3.91	-0.21
R19	5.57	3.82	-0.22
R20	5.67	3.82	-0.23
R21	8.80	3.40	-0.78
R22	8.80	3.60	-0.78
R23	8.40	4.00	-0.66
R24	7.90	3.60	-0.64
R25	15.57	9.32	-0.21
R26	8.22	5.46	-0.27
R27	8.34	5.68	-0.25
R28	8.16	5.59	-0.25
R29	35.10	1.78	-0.37



Verformungsnachweis Zustand II	Endverformung $f_{,00}$ im Zustand II	Maßstab: 1:300
Minimum aus Überlagerung über LKN in [mm] Max = 2.1 (Kn. 4502), Min = -22.0 (Kn. 1882), Step = 3		

Pos. PL-1 - Plattenbemessung (Isolinien)

Bemessung

Plattenbemessung nach DIN EN 1992-1-1

Beton C 30/37, Betonstahl B 500MA

Gesteinskörnung Quarzit

Bew.-Abstände $d', ru/su = 3.0 / 3.0$ cm

$d', ro/so = 3.0 / 3.0$ cm

Grundbewehrung $asg, ru/su = 0.00 / 0.00$ cm²/m

$asg, ro/so = 0.00 / 0.00$ cm²/m

Bemessungswinkel $w, ru/su = 0.0 / 90.0$ °

$w, ro/so = 0.0 / 90.0$ °

Mindestbewehrung (9.2.1.1) wurde nicht ermittelt.

Dicke konstant $h = 25.00$ cm

Kombinationen

Maßgebende Kombinationen nach DIN EN 1990

Zur Bemessung wurden folgende Kombinationen untersucht:

- Grundkombination

Ew Einwirkungsname

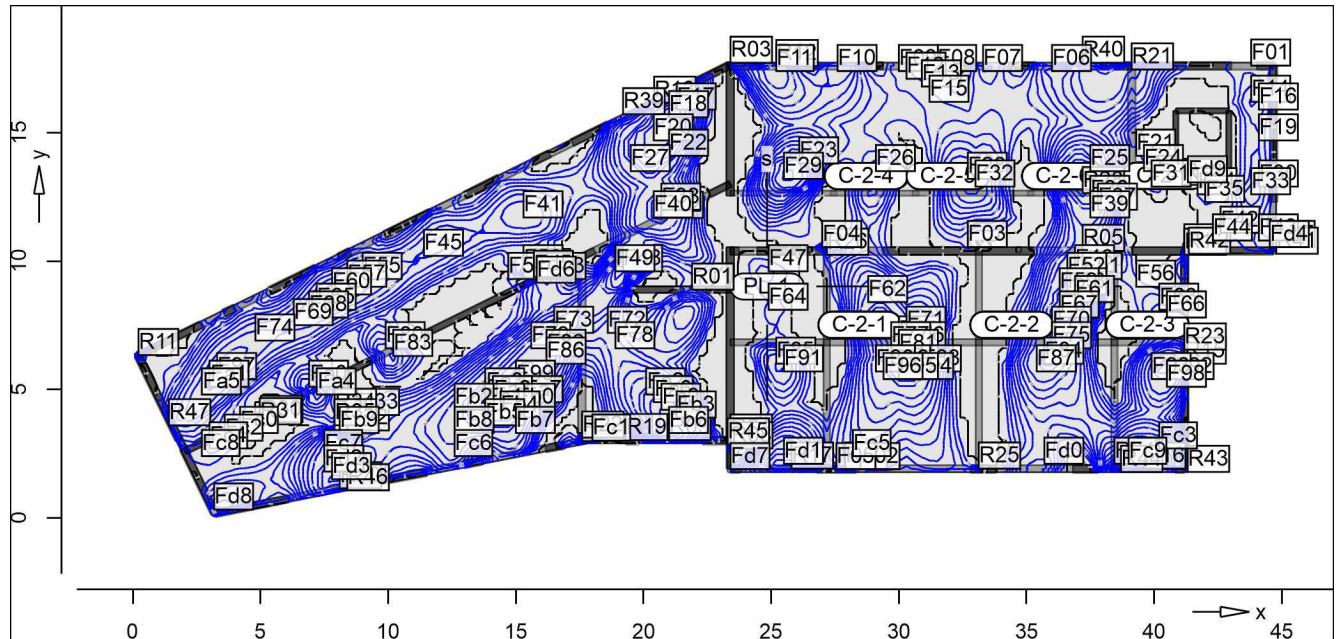
Lkn Lastkombinationsnummer

! vorherrschende veränderliche Einwirkung

Die Beteiligung einzelner Lastfälle innerhalb einer Einwirkung wird mit diesem Ausgabeformat nicht dokumentiert.

Ew	Gk	Qk.N	Qk.S	Qk.W
Lkn	Grundkombination			
1	1.35	.	.	.
2	1.35	.	1.50!	.

Erforderliche untere Bewehrung $a_{s,ru}$ [cm²/m]



Isolinienstufen = $0.10 \text{ cm}^2/\text{m}$

Bew.-Abstand: $d', ru = 3.0 \text{ cm}$

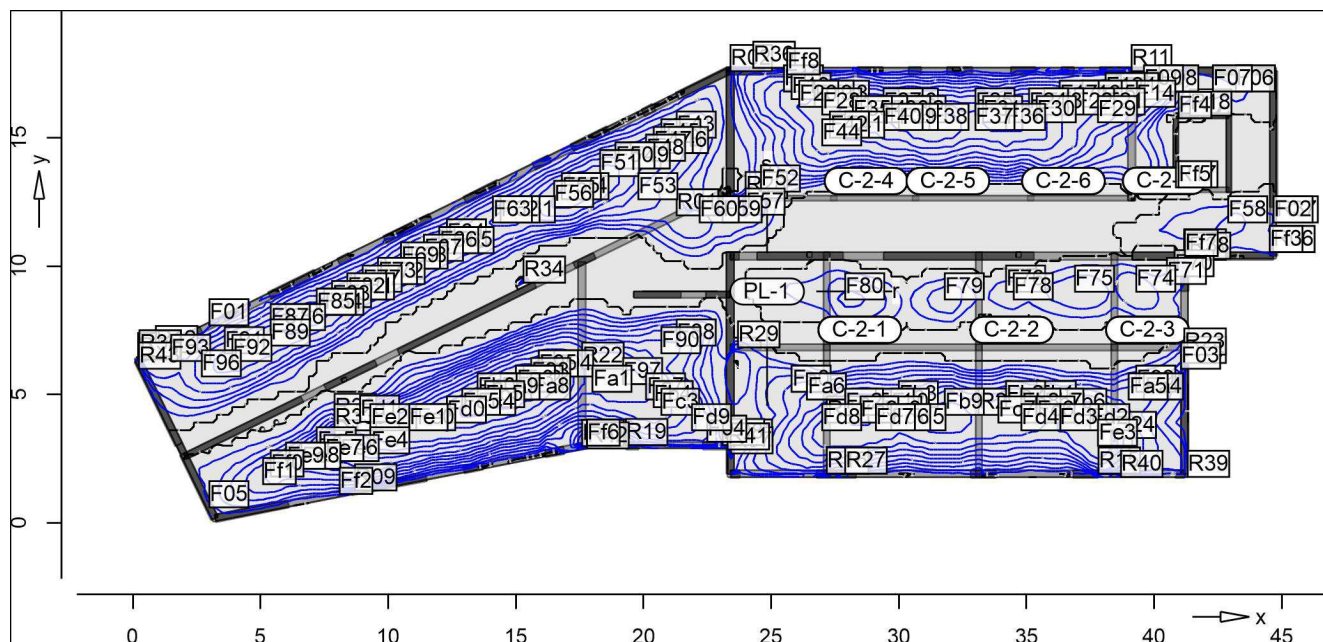
Punkt	x	y [m]	mEd	mSed	mrsEd	mEd [kNm/m]	as, ru [cm ² /m]	Lkn
C-2-9			-5.56	-6.94	7.48	1.91	0.19	2
F01	43.80	17.61	1.83	-0.12	-0.04	1.84	0.18	2
F02	28.50	1.89	1.20	-0.70	-1.64	2.85	0.28	2
F03	32.70	10.54	1.49	-14.63	1.28	1.60	0.17	2
F04	27.00	10.54	0.02	-8.34	5.50	3.64	0.36	2
F05	27.55	1.89	-0.48	-0.74	-7.51	7.04	0.71	2
F06	36.00	17.40	1.98	3.96	-4.43	6.42	0.65	2
F07	33.30	17.40	2.25	4.50	-1.80	4.05	0.41	2
F08	31.50	17.40	0.83	4.69	1.76	2.59	0.26	2
F09	30.00	17.40	1.15	4.66	1.66	2.81	0.28	2
F10	27.60	17.40	3.63	3.77	4.44	8.07	0.80	2
F11	25.20	17.40	1.52	2.35	9.84	11.35	1.08	2
F12	30.30	17.10	0.71	11.26	1.86	2.57	0.26	2
F13	30.90	16.80	0.67	16.53	1.47	2.14	0.22	2
F14	43.80	16.20	2.99	-0.29	1.23	4.23	0.42	2
F15	31.20	16.20	0.71	23.92	1.42	2.14	0.22	2
F16	44.10	15.90	3.18	-0.48	0.65	3.84	0.39	2
F17	21.30	15.90	6.68	0.40	-6.09	12.76	1.35	2
F18	21.00	15.60	8.03	1.91	-5.97	13.99	1.41	2
F19	44.10	14.70	3.00	-0.46	-0.11	3.03	0.30	2
F20	20.40	14.70	10.13	7.45	-4.66	14.79	1.41	2
F21	39.30	14.10	-2.72	4.91	4.23	1.51	0.16	2
F22	21.00	14.10	9.22	8.04	-3.56	12.79	1.35	2
F23	26.10	13.80	5.48	5.19	-7.53	13.01	1.35	2
F24	39.60	13.50	-5.11	0.67	6.26	1.15	0.11	2
F25	37.50	13.50	9.67	0.31	4.17	13.84	1.41	2
F26	29.10	13.50	3.47	0.98	-2.23	5.70	0.58	2
F27	19.50	13.50	8.42	13.62	-2.29	10.71	1.08	2
F28	32.70	13.20	8.77	-0.66	0.84	9.61	0.97	2
F29	25.50	13.20	6.27	-1.19	-7.59	13.86	1.41	2

Punkt	x	y [m]	mrEd	msEd	mrsEd	mEd [kNm/m]	as, ru [cm ² /m]	Lkn
F30	44.10	12.90	3.59	-0.59	-0.66	4.25	0.43	2
F31	39.90	12.90	-4.13	-6.01	6.88	2.75	0.27	2
F32	33.00	12.90	9.22	-5.57	0.40	9.25	0.94	2
F33	43.80	12.60	3.45	-0.07	-1.31	4.76	0.47	2
F34	41.70	12.60	0.41	-0.07	0.66	1.07	0.11	2
F35	42.00	12.30	0.52	1.80	0.61	1.13	0.11	2
F36	37.50	12.30	11.64	-10.30	2.71	12.35	1.24	2
F37	37.80	12.00	9.92	-8.15	2.67	10.80	1.08	2
F38	20.70	12.00	8.21	4.85	3.87	12.08	1.24	2
F39	37.50	11.70	10.51	-6.71	1.53	10.86	1.08	2
F40	20.40	11.70	8.21	3.23	3.82	12.04	1.24	2
F41	15.30	11.70	2.21	9.19	-5.65	7.86	0.78	2
F42	42.60	11.10	0.75	4.26	-0.55	1.30	0.13	2
F43	44.10	10.80	0.98	1.99	1.38	2.36	0.24	2
F44	42.30	10.80	0.40	2.61	-1.05	1.45	0.15	2
F45	11.40	10.20	1.34	9.70	-5.72	7.07	0.71	2
F46	36.90	9.60	8.09	1.85	-3.25	11.34	1.08	2
F47	24.90	9.60	0.00	-1.23	2.35	2.35	0.24	2
F48	19.20	9.60	4.51	-17.08	-12.63	13.85	1.41	2
F49	18.90	9.60	5.02	-17.48	-12.47	13.91	1.41	2
F50	15.30	9.60	-0.35	-9.87	7.24	4.96	0.49	2
F51	37.20	9.30	7.29	2.95	-3.37	10.66	1.08	2
F52	36.60	9.30	8.03	2.27	-3.68	11.70	1.24	2
F53	16.20	9.30	3.41	-24.29	10.82	8.23	0.82	2
F54	14.70	9.30	-1.78	-19.18	7.60	1.23	0.12	2
F55	9.00	9.30	4.19	8.90	-5.07	9.26	0.94	2
F56	39.30	9.00	-1.02	5.01	2.35	1.32	0.13	2
F57	8.40	9.00	4.08	9.08	-5.50	9.58	0.97	2
F58	36.60	8.70	8.32	1.98	-4.06	12.38	1.24	2
F59	36.30	8.70	8.29	1.92	-3.71	11.99	1.24	2
F60	7.80	8.70	3.51	9.44	-6.11	9.62	0.97	2
F61	36.90	8.40	7.77	0.89	-4.34	12.11	1.24	2
F62	28.80	8.40	5.67	1.58	5.24	10.91	1.08	2
F63	40.20	8.10	1.60	1.66	1.84	3.44	0.34	2
F64	24.90	8.10	1.10	-0.27	-0.39	1.50	0.16	2
F65	7.20	8.10	2.64	11.02	-6.43	9.06	0.91	2
F66	40.50	7.80	2.06	0.51	1.30	3.36	0.33	2
F67	36.30	7.80	10.03	-3.11	-3.46	13.49	1.35	2
F68	6.90	7.80	2.53	11.47	-6.13	8.66	0.87	2
F69	6.30	7.50	2.80	11.99	-5.39	8.19	0.82	2
F70	36.00	7.20	11.22	-8.03	-2.43	11.95	1.24	2
F71	30.30	7.20	11.96	-3.89	0.49	12.02	1.24	2
F72	18.60	7.20	7.05	13.58	0.32	7.38	0.75	2
F73	16.50	7.20	7.75	12.34	-4.25	12.00	1.24	2
F74	4.80	6.90	4.20	12.07	-4.53	8.73	0.89	2
F75	36.00	6.60	11.48	-7.92	-1.84	11.91	1.24	2
F76	30.30	6.60	12.70	-3.11	1.10	13.09	1.35	2
F77	29.70	6.60	12.84	-3.30	0.97	13.13	1.35	2
F78	18.90	6.60	6.33	18.82	1.01	7.34	0.75	2
F79	15.60	6.60	6.71	16.65	-6.13	12.84	1.35	2
F80	9.90	6.60	-2.42	-17.82	12.90	6.91	0.70	2
F81	30.00	6.30	12.87	0.91	0.95	13.82	1.41	2
F82	16.20	6.30	6.81	20.57	-6.39	13.21	1.35	2
F83	10.20	6.30	-2.95	-15.33	12.79	7.73	0.78	2
F84	35.70	6.00	10.09	1.14	-2.01	12.10	1.24	2
F85	25.20	6.00	0.84	-0.78	6.22	7.06	0.71	2
F86	16.20	6.00	6.32	22.48	-6.69	13.01	1.35	2
F87	35.40	5.70	8.36	5.53	-2.57	10.93	1.08	2
F88	30.90	5.70	9.11	8.35	2.71	11.82	1.24	2
F89	29.70	5.70	11.61	8.38	0.12	11.73	1.24	2

Punkt	x	y [m]	mrEd	msEd	mrsEd	mEd [kNm/m]	as, ru [cm ² /m]	Lkn
F90	29.10	5.70	9.58	7.79	-1.08	10.65	1.08	2
F91	25.50	5.70	1.03	1.69	5.93	6.96	0.70	2
F92	40.80	5.40	3.24	0.10	-7.39	10.63	1.08	2
F93	39.90	5.40	4.28	2.88	-6.40	10.67	1.08	2
F94	30.60	5.40	9.87	12.02	2.15	12.02	1.24	2
F95	30.00	5.40	11.07	11.92	0.67	11.75	1.24	2
F96	29.40	5.40	10.22	11.58	-0.77	10.99	1.08	2
F97	3.30	5.40	5.49	8.63	-3.76	9.25	0.94	2
F98	40.50	5.10	4.69	2.07	-6.12	10.81	1.08	2
F99	15.00	5.10	6.19	24.94	-8.28	14.47	1.41	2
Fa0	6.90	5.10	-1.65	-14.00	11.53	7.84	0.78	2
Fa1	3.00	5.10	5.88	7.03	-3.21	9.09	0.91	2
Fa2	20.10	4.80	6.10	17.17	5.61	11.71	1.24	2
Fa3	13.80	4.80	5.18	24.99	-7.91	13.09	1.35	2
Fa4	7.20	4.80	-1.67	-11.77	10.50	7.71	0.78	2
Fa5	2.70	4.80	6.20	5.12	-2.67	8.87	0.89	2
Fa6	20.40	4.50	5.75	14.66	7.07	12.82	1.35	2
Fa7	15.30	4.50	5.36	23.69	-7.65	13.01	1.35	2
Fa8	14.10	4.50	5.79	24.88	-8.05	13.84	1.41	2
Fa9	20.70	4.20	5.31	11.69	8.61	13.92	1.41	2
Fb0	15.00	4.20	5.62	22.43	-7.56	13.17	1.35	2
Fb1	13.80	4.20	5.48	24.30	-7.71	13.19	1.35	2
Fb2	12.60	4.20	3.45	24.59	-7.27	10.72	1.08	2
Fb3	21.30	3.90	4.10	7.57	10.07	14.17	1.41	2
Fb4	14.40	3.90	6.03	21.41	-7.14	13.17	1.35	2
Fb5	13.80	3.60	5.31	20.50	-6.54	11.84	1.24	2
Fb6	21.00	3.30	4.45	2.91	11.09	15.54	1.58	2
Fb7	15.00	3.30	5.33	12.75	-5.38	10.72	1.08	2
Fb8	12.60	3.30	3.61	19.94	-7.05	10.65	1.08	2
Fb9	8.10	3.30	7.11	8.89	-8.46	15.56	1.58	2
Fc0	4.20	3.30	-2.86	-8.03	5.87	1.43	0.15	2
Fc1	18.00	3.00	-3.67	7.57	-9.24	5.56	0.55	2
Fc2	3.60	3.00	-1.26	-6.04	4.68	2.37	0.24	2
Fc3	40.20	2.70	7.31	4.30	5.47	12.78	1.35	2
Fc4	3.00	2.70	-0.09	-3.75	3.24	2.71	0.27	2
Fc5	28.20	2.40	1.07	8.18	-5.23	6.30	0.63	2
Fc6	12.60	2.40	4.20	6.53	-5.52	9.72	0.98	2
Fc7	7.50	2.40	4.25	11.34	-6.77	11.02	1.08	2
Fc8	2.70	2.40	-0.34	-0.72	2.05	1.71	0.17	2
Fc9	39.00	2.10	8.27	2.23	8.12	16.39	1.67	2
Fd0	35.70	2.10	5.31	3.20	-0.90	6.21	0.63	2
Fd1	25.50	2.10	5.16	1.95	-8.25	13.41	1.35	2
Fd2	7.50	1.80	5.59	7.56	-6.29	11.89	1.24	2
Fd3	7.80	1.50	6.47	3.69	-6.39	12.85	1.35	2
Fd4	44.53	10.54	0.20	0.54	2.30	2.49	0.25	2
Fd5	15.71	9.38	-0.08	-36.76	16.20	7.06	0.71	2
Fd6	15.81	9.16	3.12	-26.87	9.61	6.56	0.65	2
Fd7	23.41	1.89	0.73	1.11	-0.98	1.71	0.17	2
Fd8	3.18	0.32	4.53	-2.50	-3.42	7.95	0.79	2
Fd9	41.32	13.06	-0.31	-1.64	1.65	1.34	0.13	2
R01	21.90	8.88	1.45	-17.30	-3.87	2.31	0.23	2
R02	20.70	11.68	7.48	2.62	4.41	11.88	1.24	2
R03	23.41	17.72	-0.23	0.60	2.53	2.30	0.23	2
R04	23.41	3.00	-14.23	-1.99	19.32	5.09	0.50	2
R05	37.20	10.39	8.55	-2.37	-1.52	9.53	0.96	2
R06	41.18	10.41	-11.20	-14.94	-22.23	11.04	1.08	2
R07	44.66	10.54	-0.12	0.31	2.49	2.36	0.24	2
R08	23.43	2.70	-6.50	-0.63	8.24	1.74	0.17	2
R09	21.00	3.02	4.30	-0.22	9.65	13.95	1.41	2
R10	8.10	1.14	5.85	-1.64	-5.03	10.89	1.08	2

Punkt	x	y [m]	mrEd	msEd	mrsEd	mEd [kNm/m]	as, ru [cm ² /m]	Lkn
R11	0.22	6.34	3.28	4.04	5.84	9.11	0.91	2
R12	25.20	17.59	1.59	-0.04	8.88	10.47	1.06	2
R13	20.42	16.17	8.27	-6.68	-5.21	12.33	1.24	2
R14	41.18	10.24	-1.49	-1.69	-5.18	3.69	0.36	2
R15	41.18	6.00	0.52	-0.80	-7.70	8.22	0.82	2
R16	39.60	1.91	9.33	0.09	6.11	15.45	1.58	2
R17	25.80	1.91	4.65	0.04	-7.42	12.07	1.24	2
R18	41.10	12.96	-0.04	-1.99	1.84	1.65	0.17	2
R19	19.31	3.02	-0.91	-0.44	2.26	1.36	0.13	2
R20	17.60	2.99	-8.71	-4.16	18.24	9.53	0.96	2
R21	39.12	17.46	-1.06	1.52	-10.11	9.04	0.91	2
R22	17.60	3.12	-0.69	-10.68	11.17	10.48	1.06	2
R23	41.18	6.55	1.25	0.43	-6.78	8.03	0.80	2
R24	38.44	2.10	4.60	2.56	10.59	15.19	1.58	2
R25	33.13	1.91	-0.03	1.11	2.13	2.10	0.21	2
R26	27.18	10.24	0.01	-2.82	2.69	2.58	0.26	2
R27	27.90	1.91	-0.16	2.25	-5.87	5.71	0.58	2
R28	37.20	12.64	11.97	-12.31	3.46	12.94	1.35	2
R29	30.00	6.83	12.95	-5.98	1.12	13.16	1.35	2
R30	5.02	3.72	-4.51	-9.99	7.03	0.44	0.05	2
R31	4.97	3.64	-3.35	-12.20	6.80	0.44	0.05	2
R32	8.40	3.40	11.46	-2.16	-1.21	12.14	1.24	2
R33	8.80	4.00	2.70	15.61	-8.02	10.72	1.08	2
R34	7.90	4.00	-0.23	7.13	3.50	3.27	0.33	2
R35	7.90	3.60	-0.79	18.79	-1.46	0.67	0.06	2
R36	15.57	9.32	0.03	-42.63	14.15	4.73	0.47	2
R37	15.50	9.45	-9.06	-23.34	15.75	1.57	0.16	2
R38	15.30	9.35	-0.57	8.52	-0.69	0.12	0.02	2
R39	19.20	15.72	5.22	-1.31	0.52	5.43	0.55	2
R40	37.20	17.72	3.15	1.14	-4.15	7.30	0.74	2
R41	44.78	10.28	1.19	0.25	0.68	1.88	0.18	2
R42	41.36	10.28	-5.65	-3.10	-6.89	1.24	0.12	2
R43	41.31	1.78	2.90	1.85	3.36	6.26	0.63	2
R44	38.70	1.78	11.50	4.64	5.04	16.54	1.67	2
R45	23.29	2.85	-5.62	-3.50	14.29	8.67	0.87	2
R46	8.40	1.07	3.87	-1.67	-4.12	7.99	0.80	2
R47	1.41	3.60	2.15	-1.92	-1.51	3.34	0.33	2

Erforderliche untere Bewehrung $a_{s,su}$ [cm^2/m]



Isolinienstufen = 0.25 cm^2/m

Bew.-Abstand: $d',su = 3.0 \text{ cm}$

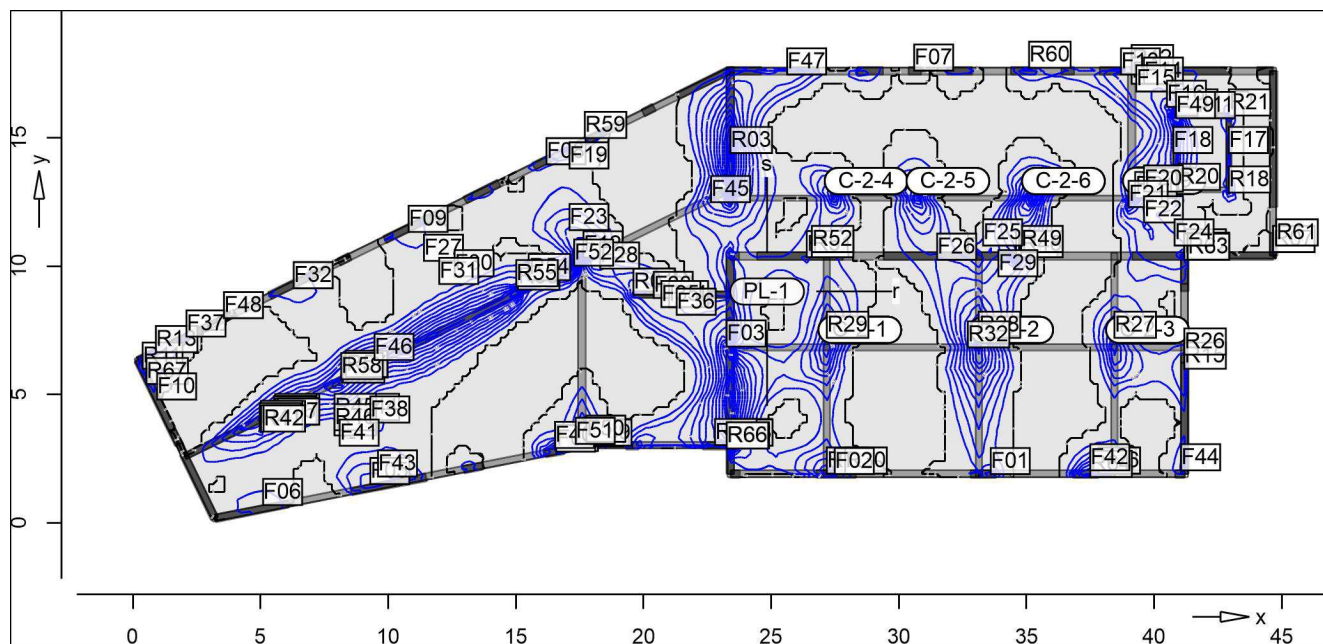
Punkt	x	y [m]	mrEd	msEd	mrsEd	mEd [kNm/m]	$a_{s,su}$ [cm^2/m]	Lkn
C-2-9			-5.56	-6.94	7.48	0.53	0.05	2
F01	3.00	7.69	1.36	1.33	1.24	2.57	0.26	2
F02	44.68	11.70	-0.14	2.43	0.10	2.49	0.25	2
F03	41.06	6.00	1.54	-0.81	-8.53	7.72	0.78	2
F04	22.50	3.15	-4.53	1.28	10.64	11.93	1.24	2
F05	3.00	0.60	0.92	-0.18	-2.16	1.98	0.19	2
F06	43.20	16.80	0.52	2.48	0.73	3.22	0.33	2
F07	42.30	16.80	-0.72	2.91	-0.74	3.65	0.36	2
F08	40.20	16.80	-5.14	6.02	-7.85	13.88	1.41	2
F09	39.60	16.80	-2.23	5.76	-9.17	14.93	1.58	2
F10	25.50	16.80	1.99	9.01	8.10	17.11	1.82	2
F11	38.70	16.50	1.04	9.46	-7.62	17.08	1.82	2
F12	38.10	16.50	3.09	11.79	-6.44	18.23	1.93	2
F13	25.80	16.50	2.80	12.17	6.28	18.45	1.93	2
F14	39.30	16.20	-1.22	7.72	-7.39	15.11	1.58	2
F15	37.80	16.20	4.24	14.49	-4.76	19.24	2.03	2
F16	37.20	16.20	4.48	16.73	-3.74	20.47	2.13	2
F17	36.30	16.20	3.27	19.79	-2.60	22.39	2.29	2
F18	27.30	16.20	3.48	18.90	2.56	21.46	2.17	2
F19	26.70	16.20	3.71	17.16	3.16	20.33	2.13	2
F20	26.10	16.20	3.66	14.88	4.32	19.21	2.03	2
F21	38.10	15.90	4.19	14.18	-4.02	18.20	1.93	2
F22	36.90	15.90	4.63	19.16	-2.19	21.34	2.17	2
F23	35.70	15.90	2.21	23.32	-1.38	24.70	2.55	2
F24	35.10	15.90	1.37	24.63	-1.32	25.95	2.62	2
F25	33.00	15.90	2.07	25.29	-0.41	25.70	2.62	2
F26	30.00	15.90	0.51	25.63	1.05	26.68	2.77	2
F27	29.40	15.90	0.81	25.06	1.06	26.11	2.62	2
F28	27.00	15.90	3.89	19.48	1.83	21.31	2.17	2
F29	37.80	15.60	5.22	15.82	-2.24	18.07	1.93	2

Punkt	x	y [m]	mrEd	msEd	mrsEd	mEd [kNm/m]	as,su [cm ² /m]	Lkn
F30	35.40	15.60	1.62	25.02	-0.67	25.69	2.62	2
F31	33.30	15.60	2.43	26.07	-0.68	26.75	2.77	2
F32	30.30	15.60	0.30	26.87	0.96	27.83	2.89	2
F33	29.70	15.60	0.60	26.28	0.69	26.97	2.77	2
F34	28.80	15.60	1.55	24.93	0.79	25.72	2.62	2
F35	28.20	15.60	2.35	23.71	0.88	24.59	2.55	2
F36	34.20	15.30	1.56	26.15	-1.23	27.38	2.77	2
F37	33.00	15.30	2.93	25.89	-0.22	26.11	2.62	2
F38	31.20	15.30	0.61	27.06	1.57	28.63	2.89	2
F39	30.00	15.30	0.22	26.55	0.46	27.01	2.77	2
F40	29.40	15.30	0.86	25.67	0.22	25.89	2.62	2
F41	27.90	15.00	2.43	21.87	-0.60	22.47	2.29	2
F42	27.30	15.00	3.24	20.25	-1.34	21.58	2.17	2
F43	21.30	15.00	7.63	4.77	-5.95	10.71	1.08	2
F44	27.00	14.70	3.39	17.53	-2.89	20.42	2.13	2
F45	20.70	14.70	9.85	7.03	-4.97	12.00	1.24	2
F46	21.00	14.40	9.21	7.39	-4.47	11.86	1.24	2
F47	20.40	14.40	10.37	8.80	-4.22	13.03	1.35	2
F48	20.10	14.10	10.31	10.53	-3.54	14.07	1.41	2
F49	19.50	13.80	8.62	12.89	-3.05	15.94	1.67	2
F50	18.90	13.80	5.65	14.06	-3.31	17.37	1.82	2
F51	18.30	13.50	2.23	16.07	-3.11	19.18	2.03	2
F52	24.60	12.90	1.05	-1.29	-7.56	6.27	0.63	2
F53	19.80	12.60	8.59	10.90	0.98	11.89	1.24	2
F54	17.10	12.60	-1.85	15.64	-5.05	20.69	2.13	2
F55	16.80	12.60	-1.52	15.03	-5.42	20.45	2.13	2
F56	16.50	12.30	-1.01	13.15	-6.22	19.37	2.03	2
F57	24.00	12.00	-3.94	3.30	-4.50	7.80	0.78	2
F58	42.90	11.70	0.71	5.03	-0.46	5.50	0.55	2
F59	23.10	11.70	-8.06	6.91	0.30	6.92	0.70	2
F60	22.20	11.70	-1.65	4.98	4.30	9.28	0.94	2
F61	15.00	11.70	2.30	9.59	-5.44	15.03	1.58	2
F62	14.40	11.70	1.89	10.16	-5.07	15.23	1.58	2
F63	14.10	11.70	1.55	10.26	-4.79	15.05	1.58	2
F64	12.30	10.80	1.88	9.38	-5.19	14.57	1.41	2
F65	12.60	10.50	1.48	9.20	-4.89	14.08	1.41	2
F66	12.00	10.50	1.59	9.47	-5.56	15.03	1.58	2
F67	11.40	10.20	1.34	9.70	-5.72	15.43	1.58	2
F68	10.80	9.90	1.67	9.87	-5.40	15.27	1.58	2
F69	10.50	9.90	1.98	9.85	-5.15	14.99	1.58	2
F70	40.80	9.60	-0.96	0.86	-2.65	3.51	0.35	2
F71	40.50	9.30	-0.58	2.76	-0.96	3.72	0.36	2
F72	9.90	9.30	3.25	9.33	-4.95	14.28	1.41	2
F73	9.60	9.30	3.70	9.34	-4.99	14.33	1.41	2
F74	39.30	9.00	-1.02	5.01	2.35	7.36	0.75	2
F75	36.90	9.00	7.80	2.70	-3.94	6.64	0.67	2
F76	34.20	9.00	-4.12	2.90	2.12	4.00	0.39	2
F77	9.00	9.00	4.09	9.36	-5.23	14.59	1.41	2
F78	34.50	8.70	-1.58	2.77	1.50	4.19	0.42	2
F79	31.80	8.70	-0.91	1.56	-5.05	6.62	0.67	2
F80	27.90	8.70	-0.22	2.71	5.16	7.88	0.79	2
F81	8.70	8.70	3.90	9.56	-5.33	14.89	1.58	2
F82	8.40	8.70	3.88	9.71	-5.64	15.36	1.58	2
F83	7.80	8.40	3.28	10.27	-6.21	16.47	1.67	2
F84	7.50	8.10	2.81	10.78	-6.29	17.06	1.82	2
F85	7.20	8.10	2.64	11.02	-6.43	17.44	1.82	2
F86	6.00	7.50	2.93	12.17	-5.07	17.23	1.82	2
F87	5.40	7.50	3.38	11.74	-4.25	15.98	1.67	2
F88	21.30	6.90	1.53	9.36	-5.59	14.96	1.58	2
F89	5.40	6.90	3.72	12.06	-4.49	16.55	1.67	2

Punkt	x	y [m]	mrEd	msEd	mrsEd	mEd [kNm/m]	as,su [cm ² /m]	Lkn
F90	20.70	6.60	3.81	14.16	-2.43	16.59	1.67	2
F91	3.60	6.60	4.28	11.14	-3.96	15.10	1.58	2
F92	3.90	6.30	4.71	11.56	-4.54	16.10	1.67	2
F93	1.50	6.30	-1.76	8.96	1.84	10.80	1.08	2
F94	16.50	5.70	4.99	23.76	-6.10	29.87	3.03	2
F95	15.90	5.70	6.22	23.69	-7.34	31.03	3.17	2
F96	2.70	5.70	4.63	10.18	-2.94	13.12	1.35	2
F97	19.20	5.40	5.67	21.29	3.04	24.33	2.38	2
F98	15.60	5.40	6.13	24.51	-7.81	32.32	3.28	2
F99	39.30	5.10	2.32	7.03	-3.92	10.95	1.08	2
Fa0	25.80	5.10	1.12	7.00	3.86	10.86	1.08	2
Fa1	18.00	5.10	-0.36	22.07	0.37	22.44	2.29	2
Fa2	15.30	5.10	6.06	24.91	-8.10	33.01	3.36	2
Fa3	15.00	5.10	6.19	24.94	-8.28	33.22	3.36	2
Fa4	39.60	4.80	4.55	7.38	-3.40	10.78	1.08	2
Fa5	39.00	4.80	1.46	10.14	-1.71	11.85	1.24	2
Fa6	26.40	4.80	-0.65	11.52	1.44	12.97	1.35	2
Fa7	20.10	4.80	6.10	17.17	5.61	22.78	2.29	2
Fa8	15.60	4.80	5.24	24.40	-7.51	31.90	3.28	2
Fa9	14.40	4.80	5.97	25.08	-8.27	33.35	3.36	2
Fb0	13.50	4.80	4.62	24.79	-7.62	32.41	3.28	2
Fb1	35.40	4.50	5.88	17.65	-1.58	19.23	2.03	2
Fb2	34.20	4.50	-1.08	19.44	-2.11	21.54	2.17	2
Fb3	30.00	4.50	8.64	18.90	0.27	19.17	2.03	2
Fb4	20.40	4.50	5.75	14.66	7.07	21.73	2.17	2
Fb5	13.80	4.50	5.39	25.03	-7.93	32.97	3.36	2
Fb6	36.60	4.20	5.43	18.24	1.20	19.45	2.03	2
Fb7	35.70	4.20	6.00	18.62	-0.82	19.45	2.03	2
Fb8	34.80	4.20	3.03	19.57	-1.79	21.36	2.17	2
Fb9	31.80	4.20	1.22	21.09	3.18	24.27	2.38	2
Fc0	29.70	4.20	7.75	19.74	-0.70	20.43	2.13	2
Fc1	29.10	4.20	6.60	19.40	-2.14	21.55	2.17	2
Fc2	27.90	4.20	0.99	18.36	-3.30	21.67	2.17	2
Fc3	20.70	4.20	5.31	11.69	8.61	20.30	2.13	2
Fc4	13.50	4.20	5.00	24.59	-7.66	32.25	3.28	2
Fc5	12.90	4.20	3.96	24.74	-7.46	32.20	3.28	2
Fc6	35.40	3.90	5.08	19.20	-1.04	20.24	2.13	2
Fc7	33.90	3.90	-2.55	21.18	-0.82	21.44	2.17	2
Fc8	29.40	3.90	6.60	19.80	-1.63	21.43	2.17	2
Fc9	28.50	3.90	3.91	19.17	-3.35	22.52	2.29	2
Fd0	12.30	3.90	3.17	23.86	-7.24	31.10	3.17	2
Fd1	8.90	3.93	2.66	20.54	-7.32	27.86	2.89	2
Fd2	37.50	3.60	1.85	17.70	4.25	21.96	2.17	2
Fd3	36.30	3.60	4.45	18.61	0.55	19.16	2.03	2
Fd4	34.80	3.60	2.97	19.27	-0.97	20.24	2.13	2
Fd5	30.30	3.60	5.99	19.71	0.58	20.29	2.13	2
Fd6	29.70	3.60	6.14	19.40	-1.02	20.42	2.13	2
Fd7	29.10	3.60	5.30	19.04	-2.53	21.57	2.17	2
Fd8	27.00	3.60	-1.93	15.92	-4.43	20.35	2.13	2
Fd9	21.90	3.60	0.74	4.25	10.77	15.02	1.58	2
Fe0	11.10	3.60	1.37	22.49	-6.76	29.25	2.92	2
Fe1	10.80	3.60	0.86	22.30	-6.71	29.02	2.92	2
Fe2	9.30	3.60	-1.26	21.86	-5.69	27.56	2.77	2
Fe3	37.80	3.00	0.12	14.34	7.04	21.38	2.17	2
Fe4	9.30	2.70	0.76	15.91	-7.51	23.41	2.38	2
Fe5	7.20	2.70	3.04	12.14	-5.98	18.12	1.93	2
Fe6	8.10	2.40	3.45	11.65	-7.64	19.29	2.03	2
Fe7	7.50	2.40	4.25	11.34	-6.77	18.11	1.93	2
Fe8	6.60	2.10	2.81	10.66	-4.55	15.22	1.58	2
Fe9	6.00	2.10	0.74	10.73	-3.46	14.19	1.41	2

Punkt	x	y [m]	mrEd	msEd	mrsEd	mEd [kNm/m]	as,su [cm ² /m]	Lkn
Ff0	5.40	1.80	-0.39	9.86	-3.12	12.98	1.35	2
Ff1	5.10	1.50	-0.52	8.51	-3.40	11.91	1.24	2
Ff2	8.10	1.12	6.11	0.15	-3.41	3.56	0.35	2
Ff3	44.53	10.54	0.20	0.54	2.30	2.84	0.28	2
Ff4	40.96	15.76	-12.83	-4.18	-8.36	1.27	0.12	2
Ff5	40.95	13.06	-6.72	-3.05	6.23	2.74	0.27	2
Ff6	17.79	3.00	-5.85	39.99	0.74	40.08	4.11	2
Ff7	41.21	10.39	-15.73	-8.13	-20.75	12.62	1.24	2
Ff8	25.63	17.46	0.44	2.03	9.71	11.74	1.24	2
R01	21.30	11.97	5.33	2.95	5.25	8.20	0.82	2
R02	23.41	17.59	-2.81	0.42	4.22	4.64	0.46	2
R03	23.41	3.00	-14.23	-1.99	19.32	17.33	1.82	2
R04	41.18	10.39	-17.97	-11.46	-23.91	12.46	1.24	2
R05	41.18	10.41	-11.20	-14.94	-22.23	7.30	0.74	2
R06	44.66	10.54	-0.12	0.31	2.49	2.80	0.28	2
R07	23.43	2.70	-6.50	-0.63	8.24	7.61	0.76	2
R08	23.10	3.02	-7.01	3.02	7.61	10.64	1.08	2
R09	8.70	1.26	1.43	-2.72	-7.26	4.54	0.45	2
R10	0.21	6.37	2.76	6.05	3.90	9.95	1.00	2
R11	39.12	17.59	-0.25	0.40	-9.97	10.37	1.04	2
R12	0.90	6.65	-4.51	4.86	4.27	8.90	0.89	2
R13	41.18	10.24	-1.49	-1.69	-5.18	3.49	0.34	2
R14	41.18	6.22	0.89	-0.05	-7.15	7.10	0.71	2
R15	37.82	1.91	-5.18	0.30	11.53	11.83	1.24	2
R16	27.18	1.91	-6.19	0.76	-8.13	8.89	0.89	2
R17	40.85	13.06	-14.82	-1.10	6.06	1.38	0.13	2
R18	41.40	15.86	-1.02	1.02	0.38	1.16	0.11	2
R19	19.31	3.02	-0.91	-0.44	2.26	1.82	0.18	2
R20	17.60	2.99	-8.71	-4.16	18.24	14.07	1.41	2
R21	39.12	16.50	-1.76	7.77	-8.31	16.08	1.67	2
R22	17.60	6.00	0.90	22.60	-2.06	24.66	2.55	2
R23	41.18	6.55	1.25	0.43	-6.78	7.21	0.73	2
R24	38.44	3.30	0.85	13.12	6.19	19.31	2.03	2
R25	33.13	4.20	-8.96	21.73	0.74	21.79	2.17	2
R26	27.18	3.90	-3.08	16.97	-3.53	20.49	2.13	2
R27	27.90	1.91	-0.16	2.25	-5.87	8.12	0.81	2
R28	24.00	12.64	-4.92	1.80	-6.33	8.14	0.81	2
R29	23.70	6.83	-4.58	7.14	0.15	7.14	0.73	2
R30	7.90	3.40	2.54	18.68	-9.73	28.41	2.89	2
R31	8.80	3.60	-0.70	24.26	-1.61	25.87	2.62	2
R32	7.90	4.00	-0.23	7.13	3.50	10.63	1.08	2
R33	7.90	3.60	-0.79	18.79	-1.46	20.25	2.13	2
R34	15.30	9.35	-0.57	8.52	-0.69	9.20	0.93	2
R35	0.26	6.48	1.81	5.26	3.57	8.83	0.89	2
R36	24.30	17.72	0.95	1.69	5.47	7.16	0.73	2
R37	44.78	11.70	0.01	2.34	0.09	2.43	0.24	2
R38	41.36	10.28	-5.65	-3.10	-6.89	3.78	0.38	2
R39	41.31	1.78	2.90	1.85	3.36	5.21	0.53	2
R40	38.70	1.78	11.50	4.64	5.04	9.68	0.98	2
R41	23.29	2.85	-5.62	-3.50	14.29	10.79	1.08	2
R42	17.79	2.89	-8.09	10.79	12.66	23.46	2.38	2
R43	0.24	6.00	-1.97	3.36	1.25	4.15	0.42	2

Erforderliche obere Bewehrung $a_{s,ro}$ [cm^2/m]



Isolinienstufen = 0.25 cm^2/m

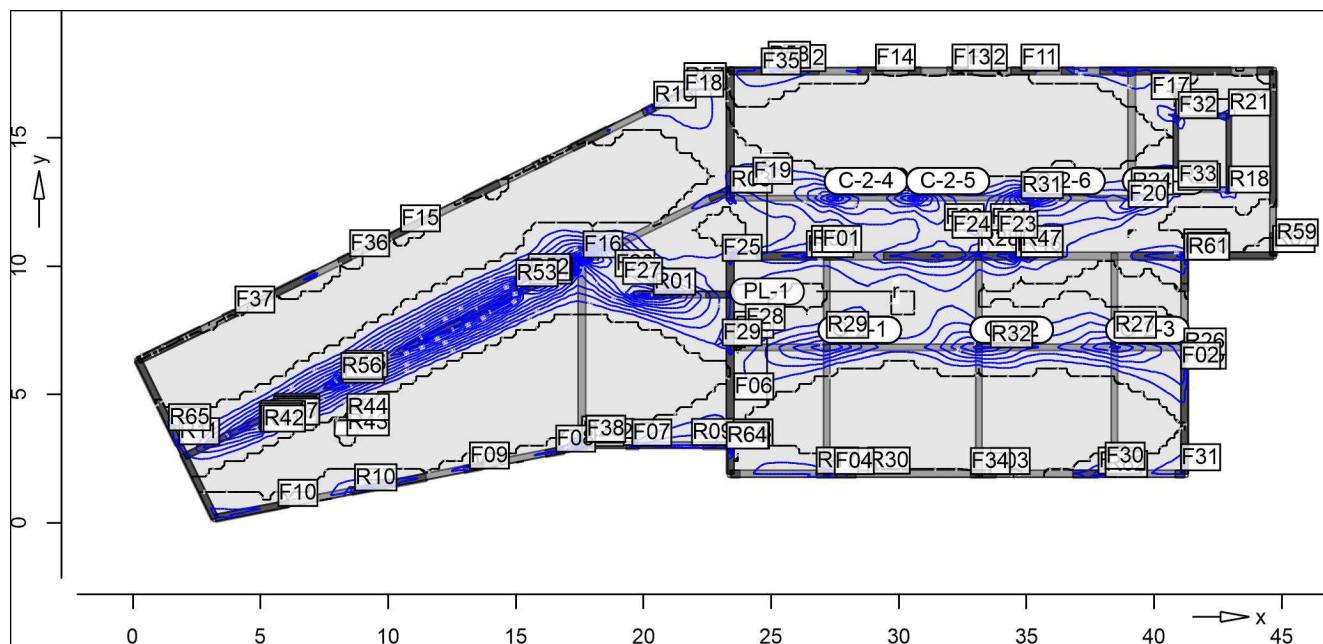
Bew.-Abstand: $d',ro = 3.0 \text{ cm}$

Punkt	x	y [m]	mrEd	msEd	mrsEd	mEd [kNm/m]	$a_{s,ro}$ [cm^2/m]	Lkn
C-2-1			-16.60	-17.91	3.21	-19.80	1.98	2
C-2-2			-24.84	-20.91	-2.33	-27.17	2.73	2
C-2-3			-13.78	-19.28	-3.07	-16.84	1.65	2
C-2-4			-16.34	-30.70	-2.19	-18.52	1.89	2
C-2-5			-19.39	-34.79	-2.95	-22.34	2.29	2
C-2-6			-25.77	-40.55	4.57	-30.35	3.09	2
C-2-9			-10.84	-15.51	3.99	-14.83	1.44	2
F01	33.60	1.89	-8.02	-1.51	2.49	-10.51	1.06	2
F02	27.49	1.89	-6.82	-2.29	-6.10	-12.92	1.39	2
F03	23.26	6.86	-31.07	-1.70	-3.05	-34.11	3.49	2
F04	16.58	2.77	-10.31	-3.92	-3.74	-14.04	1.44	2
F05	9.30	1.51	-0.98	0.57	-7.38	-8.35	0.84	2
F06	5.10	0.69	-1.13	0.98	-3.60	-4.73	0.48	2
F07	30.60	17.61	-0.82	-0.68	1.38	-2.20	0.21	2
F08	16.20	13.96	-2.89	5.01	0.85	-3.04	0.30	2
F09	10.80	11.33	-1.60	1.08	-2.43	-4.03	0.40	2
F10	0.95	4.80	-1.13	2.20	-0.88	-1.48	0.14	2
F11	41.70	15.76	-0.81	-0.55	1.09	-1.90	0.19	2
F12	17.65	10.33	-20.97	-55.47	9.92	-30.89	3.15	2
F13	38.70	17.46	-0.79	1.86	-10.27	-11.06	1.09	2
F14	39.60	17.10	-1.91	4.52	-9.17	-11.08	1.09	2
F15	39.30	16.80	-1.81	6.05	-9.37	-11.19	1.09	2
F16	40.50	16.20	-12.14	2.29	-6.29	-18.43	1.89	2
F17	42.92	14.40	-2.73	-0.55	0.01	-2.74	0.28	2
F18	40.75	14.40	-16.23	0.11	2.41	-18.65	1.89	2
F19	17.10	13.80	-1.68	12.20	-1.50	-1.87	0.19	2
F20	39.60	12.90	-7.35	-7.21	7.37	-14.73	1.44	2
F21	39.00	12.30	-10.13	-13.57	6.36	-16.48	1.65	2
F22	39.60	11.70	-6.41	0.22	-1.33	-7.74	0.77	2
F23	17.10	11.40	-5.08	2.27	-5.73	-10.81	1.09	2

Punkt	x	y [m]	mrEd	msEd	mrsEd	mEd [kNm/m]	as,ro [cm ² /m]	Lkn
F24	40.80	10.80	-4.34	-1.50	-2.32	-6.66	0.67	2
F25	33.30	10.80	-1.88	-15.56	1.59	-3.47	0.35	2
F26	31.50	10.24	-1.15	-13.37	-3.88	-5.03	0.51	2
F27	11.40	10.20	1.34	9.70	-5.72	-2.03	0.21	2
F28	18.30	9.90	-1.39	-20.71	-9.17	-10.56	1.07	2
F29	33.90	9.60	-5.18	-0.64	2.84	-8.02	0.81	2
F30	12.60	9.60	-0.37	3.34	-2.23	-1.86	0.19	2
F31	12.00	9.30	-0.42	3.38	-2.34	-2.04	0.21	2
F32	6.30	9.13	-1.67	1.16	-2.80	-4.47	0.45	2
F33	20.40	8.76	-5.17	-26.88	-6.80	-11.97	1.25	2
F34	21.00	8.40	-2.75	-12.26	-8.41	-11.16	1.09	2
F35	20.70	8.40	-3.75	-12.70	-7.67	-11.43	1.09	2
F36	21.30	8.10	-1.18	-5.01	-9.34	-10.52	1.07	2
F37	2.10	7.25	-3.01	0.90	1.22	-4.23	0.43	2
F38	9.30	3.90	-1.14	20.33	-6.33	-3.11	0.31	2
F39	18.00	3.00	-3.67	7.57	-9.24	-12.91	1.39	2
F40	16.54	2.91	-11.53	4.17	5.10	-16.62	1.65	2
F41	8.10	3.00	3.36	10.81	-7.68	-2.09	0.21	2
F42	37.50	2.04	-8.40	3.34	8.06	-16.46	1.65	2
F43	9.60	1.80	-1.01	5.35	-7.24	-8.25	0.83	2
F44	41.06	2.04	1.43	0.81	6.70	-5.27	0.53	2
F45	22.65	12.49	-9.83	-0.69	4.08	-13.91	1.44	2
F46	9.46	6.34	-6.47	-18.52	12.70	-19.17	1.98	2
F47	25.63	17.46	0.44	2.03	9.71	-9.27	0.94	2
F48	3.57	7.97	-1.10	1.54	2.09	-3.20	0.32	2
F49	40.86	15.76	-30.58	-1.90	-8.64	-39.22	4.00	2
F50	17.76	3.15	-13.29	-26.16	4.34	-17.63	1.78	2
F51	17.34	3.07	-5.63	-3.57	7.06	-12.69	1.25	2
F52	17.28	10.01	-16.21	-37.23	13.85	-30.06	3.09	2
R01	19.61	8.88	-5.44	-30.04	-7.64	-13.07	1.39	2
R02	8.35	5.66	-15.07	-32.27	19.58	-34.65	3.49	2
R03	23.41	14.40	-29.06	0.65	-2.99	-32.05	3.27	2
R04	23.41	3.02	-24.94	-0.38	15.36	-40.30	4.11	2
R05	41.18	10.39	-17.97	-11.46	-23.91	-41.88	4.30	2
R06	41.18	10.41	-11.20	-14.94	-22.23	-33.43	3.42	2
R07	44.66	10.54	-0.12	0.31	2.49	-2.61	0.26	2
R08	23.43	3.00	-29.27	-0.92	13.47	-42.75	4.36	2
R09	22.80	3.02	-6.43	1.21	8.57	-15.00	1.56	2
R10	16.58	2.79	-11.79	-2.10	2.12	-13.90	1.44	2
R11	0.38	6.00	-4.46	5.86	2.79	-5.79	0.58	2
R12	39.12	17.59	-0.25	0.40	-9.97	-10.22	1.04	2
R13	0.90	6.65	-4.51	4.86	4.27	-8.27	0.83	2
R14	41.18	10.24	-1.49	-1.69	-5.18	-6.67	0.67	2
R15	41.18	6.00	0.52	-0.80	-7.70	-7.18	0.72	2
R16	37.82	1.91	-5.18	0.30	11.53	-16.71	1.65	2
R17	27.18	1.91	-6.19	0.76	-8.13	-14.32	1.44	2
R18	42.92	12.86	-8.19	-8.49	0.97	-9.16	0.93	2
R19	40.85	15.86	-31.89	-13.80	-2.14	-34.03	3.49	2
R20	40.95	12.96	-1.13	-6.25	2.55	-3.68	0.37	2
R21	42.93	15.86	-8.61	-7.47	1.08	-9.69	0.98	2
R22	17.79	3.03	-9.00	-12.36	4.30	-13.31	1.39	2
R23	17.60	2.99	-8.71	-4.16	18.24	-26.94	2.73	2
R24	39.12	17.10	-2.10	4.43	-9.84	-11.94	1.25	2
R25	17.60	2.97	-8.95	2.35	13.26	-22.21	2.24	2
R26	41.18	6.55	1.25	0.43	-6.78	-5.52	0.55	2
R27	38.44	7.20	-13.21	-13.54	-1.61	-14.83	1.44	2
R28	33.13	7.20	-24.05	-14.53	-1.07	-25.12	2.52	2
R29	27.18	7.20	-14.46	-11.92	2.81	-17.26	1.78	2
R30	27.90	1.91	-0.16	2.25	-5.87	-6.04	0.60	2
R31	39.26	12.64	-13.74	-15.24	7.81	-21.55	2.24	2

Punkt	x	y [m]	mrEd	msEd	mrsEd	mEd [kNm/m]	as,ro [cm ² /m]	Lkn
R32	32.70	6.83	-14.66	-21.70	-0.91	-15.57	1.56	2
R33	5.67	4.00	-8.26	-12.59	8.77	-17.03	1.78	2
R34	5.57	4.00	-4.98	-11.31	7.23	-12.20	1.25	2
R35	5.52	3.91	-4.96	-12.31	6.77	-11.72	1.25	2
R36	5.57	3.82	-8.01	-8.49	6.53	-14.54	1.44	2
R37	5.67	3.82	-5.54	-5.89	4.73	-10.27	1.04	2
R38	5.12	3.72	-7.20	-11.77	8.31	-15.52	1.56	2
R39	5.02	3.72	-4.51	-9.99	7.03	-11.54	1.09	2
R40	4.97	3.64	-3.35	-12.20	6.80	-10.15	1.03	2
R41	5.02	3.55	-6.19	-8.09	6.96	-13.15	1.39	2
R42	5.12	3.55	-4.70	-4.63	4.46	-9.15	0.93	2
R43	7.90	3.40	2.54	18.68	-9.73	-2.52	0.25	2
R44	8.80	4.00	2.70	15.61	-8.02	-1.41	0.14	2
R45	7.90	4.00	-0.23	7.13	3.50	-1.95	0.19	2
R46	7.90	3.60	-0.79	18.79	-1.46	-0.90	0.09	2
R47	34.59	10.34	-18.53	-16.11	9.14	-27.67	2.86	2
R48	34.79	10.34	-7.85	-12.80	-2.64	-10.49	1.06	2
R49	34.79	10.54	-10.17	-13.03	6.64	-16.81	1.65	2
R50	26.39	10.34	-2.50	-9.99	4.00	-6.50	0.65	2
R51	26.59	10.34	-3.31	-8.08	0.86	-4.17	0.43	2
R52	26.59	10.54	-2.79	-9.27	4.65	-7.45	0.76	2
R53	15.08	9.08	-10.39	-26.96	18.12	-28.52	2.86	2
R54	15.50	9.45	-9.06	-23.34	15.75	-24.82	2.52	2
R55	15.01	9.21	-3.69	-28.98	7.74	-11.43	1.09	2
R56	8.22	5.46	-12.07	-21.97	12.19	-24.26	2.46	2
R57	8.34	5.68	-17.51	-24.17	15.98	-33.49	3.42	2
R58	8.16	5.59	-6.01	-34.30	8.21	-14.22	1.44	2
R59	17.70	14.99	-3.72	-0.67	-1.25	-4.98	0.49	2
R60	35.10	17.72	-3.42	-1.00	-2.20	-5.62	0.56	2
R61	44.78	10.80	-0.24	-0.21	1.34	-1.57	0.15	2
R62	41.31	10.28	-7.93	-9.20	-8.42	-16.35	1.65	2
R63	41.31	10.24	-2.58	-6.44	-7.50	-10.08	1.01	2
R64	37.50	1.78	-11.98	-2.31	5.69	-17.67	1.78	2
R65	23.29	2.89	-14.43	-6.23	12.42	-26.85	2.73	2
R66	23.26	2.89	-18.42	-4.71	9.77	-28.20	2.86	2
R67	0.53	5.40	-2.79	3.74	0.90	-3.00	0.30	2

Erforderliche obere Bewehrung $a_{s,so}$ [cm^2/m]



Isolinienstufen = 0.40 cm^2/m

Bew.-Abstand: $d',so = 3.0 \text{ cm}$

Punkt	x	y [m]	mrEd	msEd	mrsEd	mEd [kNm/m]	$a_{s,so}$ [cm^2/m]	Lkn
C-2-1			-14.31	-19.61	3.29	-22.90	2.29	2
C-2-2			-22.66	-24.59	-0.55	-25.14	2.52	2
C-2-3			-12.07	-22.13	-1.83	-23.96	2.46	2
C-2-4			-12.59	-30.53	-3.34	-33.86	3.42	2
C-2-5			-19.39	-34.79	-2.95	-37.74	3.82	2
C-2-6			-21.97	-39.64	5.38	-45.02	4.63	2
C-2-9			-10.84	-15.51	3.99	-19.50	1.98	2
F01	27.00	10.54	0.02	-8.34	5.50	-13.83	1.44	2
F02	41.06	6.00	1.54	-0.81	-8.53	-9.34	0.94	2
F03	33.60	1.89	-8.02	-1.51	2.49	-4.00	0.40	2
F04	27.49	1.89	-6.82	-2.29	-6.10	-8.39	0.84	2
F05	23.56	7.20	-14.67	-1.58	1.50	-3.08	0.31	2
F06	23.56	4.80	-24.37	1.76	3.73	-1.97	0.19	2
F07	19.56	3.00	-4.25	-1.09	4.58	-5.67	0.57	2
F08	16.58	2.77	-10.31	-3.92	-3.74	-7.66	0.77	2
F09	13.20	2.11	-0.89	-2.26	-2.50	-4.76	0.48	2
F10	5.70	0.65	-1.60	-1.27	-2.15	-3.43	0.35	2
F11	34.80	17.61	-2.93	-0.65	-2.35	-3.01	0.30	2
F12	32.70	17.61	-2.17	-0.85	-1.60	-2.45	0.25	2
F13	32.10	17.61	-2.82	-0.87	1.02	-1.89	0.19	2
F14	29.10	17.61	-2.76	-0.54	1.12	-1.66	0.16	2
F15	10.50	11.35	-2.37	-1.00	-1.12	-2.12	0.21	2
F16	17.65	10.33	-20.97	-55.47	9.92	-65.40	6.81	2
F17	39.90	16.50	-3.88	5.61	-8.61	-3.00	0.30	2
F18	21.60	16.60	3.69	-2.98	-4.90	-7.89	0.79	2
F19	24.30	13.20	-2.40	-2.00	-6.88	-8.88	0.90	2
F20	39.00	12.30	-10.13	-13.57	6.36	-19.93	1.98	2
F21	33.60	11.40	0.69	-10.06	4.22	-14.28	1.44	2
F22	31.80	11.40	0.86	-10.41	-4.67	-15.07	1.56	2
F23	33.90	11.10	-1.71	-9.99	4.14	-14.13	1.44	2

Punkt	x	y [m]	mrEd	msEd	mrsEd	mEd [kNm/m]	as,so [cm ² /m]	Lkn
F24	32.10	11.10	1.45	-11.51	-3.38	-14.89	1.56	2
F25	23.10	10.20	-5.17	-2.91	2.63	-5.55	0.56	2
F26	18.90	9.60	5.02	-17.48	-12.47	-29.94	3.09	2
F27	19.20	9.30	4.51	-18.34	-12.43	-30.77	3.09	2
F28	24.00	7.50	-3.76	-1.76	-0.47	-2.23	0.23	2
F29	23.10	6.90	-20.06	-0.60	-4.16	-4.76	0.48	2
F30	38.10	2.10	0.42	3.19	11.70	-8.51	0.86	2
F31	41.06	2.04	1.43	0.81	6.70	-5.89	0.59	2
F32	40.96	15.76	-12.83	-4.18	-8.36	-12.54	1.25	2
F33	40.95	13.06	-6.72	-3.05	6.23	-9.28	0.94	2
F34	32.82	1.89	-0.70	-0.28	-1.07	-1.35	0.14	1
F35	24.63	17.46	0.45	1.58	9.28	-7.70	0.77	2
F36	8.51	10.38	2.79	-1.81	-0.92	-2.12	0.21	2
F37	4.02	8.19	2.24	-0.99	-0.23	-1.01	0.10	2
F38	17.76	3.15	-13.29	-26.16	4.34	-30.51	3.09	2
R01	20.40	8.88	-5.10	-33.23	-6.46	-39.69	4.11	2
R02	8.17	5.57	-6.89	-38.67	16.35	-55.02	5.69	2
R03	23.41	12.86	-24.54	-2.97	7.07	-10.04	1.01	2
R04	23.41	3.00	-14.23	-1.99	19.32	-21.31	2.24	2
R05	41.18	10.39	-17.97	-11.46	-23.91	-35.37	3.67	2
R06	41.18	10.41	-11.20	-14.94	-22.23	-37.17	3.75	2
R07	44.66	10.54	-0.12	0.31	2.49	-2.18	0.21	2
R08	23.43	3.00	-29.27	-0.92	13.47	-14.40	1.44	2
R09	21.90	3.02	0.91	-0.30	10.05	-10.35	1.05	2
R10	8.70	1.26	1.43	-2.72	-7.26	-9.98	1.00	2
R11	1.82	3.06	2.19	-6.35	-2.69	-9.04	0.91	2
R12	25.50	17.59	0.59	-0.20	9.66	-9.87	0.99	2
R13	20.42	16.17	8.27	-6.68	-5.21	-9.96	1.00	2
R14	41.18	10.24	-1.49	-1.69	-5.18	-6.87	0.69	2
R15	41.18	6.00	0.52	-0.80	-7.70	-8.50	0.86	2
R16	37.82	1.91	-5.18	0.30	11.53	-11.24	1.09	2
R17	26.78	1.91	-3.33	-0.51	-7.76	-8.27	0.83	2
R18	42.92	12.86	-8.19	-8.49	0.97	-9.46	0.96	2
R19	40.85	15.86	-31.89	-13.80	-2.14	-15.94	1.65	2
R20	40.95	12.96	-1.13	-6.25	2.55	-8.81	0.88	2
R21	42.93	15.86	-8.61	-7.47	1.08	-8.56	0.86	2
R22	18.00	3.03	-2.35	-17.84	-6.20	-24.04	2.46	2
R23	17.60	2.99	-8.71	-4.16	18.24	-22.40	2.29	2
R24	39.12	12.78	-6.04	-6.36	3.21	-9.56	0.97	2
R25	17.60	3.12	-0.69	-10.68	11.17	-21.85	2.24	2
R26	41.18	6.55	1.25	0.43	-6.78	-6.35	0.63	2
R27	38.44	7.20	-13.21	-13.54	-1.61	-15.15	1.56	2
R28	33.13	10.54	-6.05	-20.49	-0.45	-20.95	2.10	2
R29	27.18	7.20	-14.46	-11.92	2.81	-14.73	1.44	2
R30	28.80	1.91	0.78	-0.59	-3.28	-3.87	0.39	2
R31	34.80	12.64	-10.95	-31.51	3.84	-35.35	3.67	2
R32	33.60	6.83	-13.76	-22.40	-1.02	-23.41	2.46	2
R33	5.67	4.00	-8.26	-12.59	8.77	-21.37	2.24	2
R34	5.57	4.00	-4.98	-11.31	7.23	-18.54	1.89	2
R35	5.52	3.91	-4.96	-12.31	6.77	-19.08	1.89	2
R36	5.57	3.82	-8.01	-8.49	6.53	-15.02	1.56	2
R37	5.67	3.82	-5.54	-5.89	4.73	-10.62	1.07	2
R38	5.12	3.72	-7.20	-11.77	8.31	-20.08	1.98	2
R39	5.02	3.72	-4.51	-9.99	7.03	-17.02	1.78	2
R40	4.97	3.64	-3.35	-12.20	6.80	-19.00	1.89	2
R41	5.02	3.55	-6.19	-8.09	6.96	-15.04	1.56	2
R42	5.12	3.55	-4.70	-4.63	4.46	-9.09	0.91	2
R43	8.40	3.40	11.46	-2.16	-1.21	-2.29	0.23	2
R44	8.40	4.00	1.09	-2.54	-0.12	-2.55	0.26	2
R45	34.59	10.34	-18.53	-16.11	9.14	-25.26	2.52	2

Punkt	x	y [m]	mrEd	msEd	mrsEd	mEd [kNm/m]	as,so [cm ² /m]	Lkn
R46	34.79	10.34	-7.85	-12.80	-2.64	-15.44	1.56	2
R47	34.79	10.54	-10.17	-13.03	6.64	-19.67	1.98	2
R48	26.39	10.34	-2.50	-9.99	4.00	-13.99	1.44	2
R49	26.59	10.34	-3.31	-8.08	0.86	-8.95	0.90	2
R50	26.59	10.54	-2.79	-9.27	4.65	-13.92	1.44	2
R51	15.57	9.32	0.03	-42.63	14.15	-56.78	5.88	2
R52	15.50	9.45	-9.06	-23.34	15.75	-39.09	4.00	2
R53	15.01	9.21	-3.69	-28.98	7.74	-36.72	3.75	2
R54	8.22	5.46	-12.07	-21.97	12.19	-34.15	3.49	2
R55	8.34	5.68	-17.51	-24.17	15.98	-40.16	4.11	2
R56	8.16	5.59	-6.01	-34.30	8.21	-42.51	4.36	2
R57	21.60	16.89	1.05	-3.29	-2.61	-5.90	0.59	2
R58	24.90	17.72	0.65	-1.76	5.53	-7.29	0.73	2
R59	44.78	10.80	-0.24	-0.21	1.34	-1.54	0.15	2
R60	41.31	10.28	-7.93	-9.20	-8.42	-17.61	1.78	2
R61	41.31	10.24	-2.58	-6.44	-7.50	-13.95	1.44	2
R62	38.10	1.78	-1.60	-1.85	8.17	-10.02	1.01	2
R63	23.29	2.89	-14.43	-6.23	12.42	-18.65	1.89	2
R64	23.26	2.89	-18.42	-4.71	9.77	-14.49	1.44	2
R65	1.41	3.60	2.15	-1.92	-1.51	-2.98	0.30	2

Pos.Unterzug-Bem
Unterzug-Bem
Bemessung (GZT)

Nachweise im Grenzzustand der Tragfähigkeit nach
DIN EN 1992-1-1

Bem.werte

	Längs	Quer	b_w [cm]	h_{ges} [cm]	b_{Pl} [cm]	h_f [cm]
P-2-1	B 500SA	B 500SA	25.0	50.0	60.0	25.0
P-2-2	B 500SA	B 500SA	20.0	43.0	60.0	25.0
P-2-3	B 500SA	B 500SA	26.0	112.0	60.0	25.0
P-2-4..P-2-6	B 500SA	B 500SA	25.0	43.0	60.0	25.0
P-2-7	B 500SA	B 500SA	26.0	68.0	60.0	25.0
P-2-8, P-2-9	B 500SA	B 500SA	30.0	43.0	60.0	25.0
P-2-10-1, P-2-10-2	B 500SA	B 500SA	26.0	112.0	60.0	25.0
UZ-1	B 500SA	B 500SA	20.0	81.0	60.0	20.0
UZ-2	B 500SA	B 500SA	20.0	210.0	60.0	20.0
UZ-3, UZ-4	B 500SA	B 500SA	20.0	81.0	60.0	20.0
V-2-1-1..V-2-1-11	B 500SA	B 500SA	26.0	43.0	60.0	25.0
V-2-1-12	B 500SA	B 500SA	26.0	65.0	60.0	25.0
V-2-2-1..V-2-2-3	B 500SA	B 500SA	30.0	43.0	60.0	25.0
V-2-3-1	B 500SA	B 500SB	25.0	43.0	60.0	25.0
V-2-3-2	B 500SA	B 500SA	25.0	43.0	60.0	25.0

b_w : Balkenbreite
 h_{ges} : Balkenhöhe mit Plattendicke
 b_{Pl} : Breite der Platte
 h_f : Dicke der Platte

Bewehrung

	d'_{u} [cm]	d'_{o} [cm]	Theta [°]	Mind.bew.	Typ
P-2-1..P-2-9, P-2-10-1, P-2-10-2, UZ-1..UZ-4, V-2-1-1..V-2-1-12, V-2-2-1..V-2-2-3, V-2-3-1, V-2-3-2	5.00	5.00	opt	LQ	PB

LQ : Mindestlängsbewehrung (9.2.1.1) und
Mindestquerkraftbewehrung (9.2.2) berücksichtigt.
opt : Druckstrebenneigung wurde vom Programm optimiert.
PB : Bemessungsquerschnitt (Plattenbalken): Plattenmomente und
-querkräfte werden berücksichtigt.
Theta : vorgegebene minimale Druckstrebenneigung

Mat./Querschnitt

Material- und Querschnittswerte nach DIN EN
1992-1-1

Stahlbeton-Balken

Position	Art	Material	Ges.	$l_{(r)}$ [m]	$b_{(t)}/h_{(s)}$ [cm]
P-2-1	UZ	C 30/37	Q	17.80	25.0/25.0
P-2-2	UZ	C 30/37	Q	15.85	20.0/18.0
P-2-3	UZ	C 30/37	Q	5.70	26.0/87.0
P-2-4, P-2-5	UZ	C 30/37	Q	8.75	25.0/18.0
P-2-6	UZ	C 30/37	Q	8.73	25.0/18.0
P-2-7	UZ	C 30/37	Q	3.10	26.0/43.0
P-2-8	UZ	C 30/37	Q	7.20	30.0/18.0
P-2-9	UZ	C 30/37	Q	5.07	30.0/18.0
P-2-10-1	UZ	C 30/37	Q	1.23	26.0/87.0
P-2-10-2	UZ	C 30/37	Q	1.78	26.0/87.0
UZ-1	UZ	C 30/37	Q	2.07	20.0/61.0
UZ-2	UZ	C 30/37	Q	2.07	20.0/190.0
UZ-3	UZ	C 30/37	Q	2.90	20.0/61.0
UZ-4	UZ	C 30/37	Q	3.00	20.0/61.0
V-2-1-1	UZ	C 30/37	Q	4.12	26.0/18.0
V-2-1-2	UZ	C 30/37	Q	7.93	26.0/18.0

Position	Art	Material	Ges.	$l_{(r)}$ [m]	$b_{(t)}/h_{(s)}$ [cm]
V-2-1-3	UZ	C 30/37	Q	4.33	26.0/18.0
V-2-1-4	UZ	C 30/37	Q	1.07	26.0/18.0
V-2-1-5	UZ	C 30/37	Q	25.72	26.0/18.0
V-2-1-6	UZ	C 30/37	Q	21.29	26.0/18.0
V-2-1-7	UZ	C 30/37	Q	6.89	26.0/18.0
V-2-1-8	UZ	C 30/37	Q	13.60	26.0/18.0
V-2-1-9	UZ	C 30/37	Q	3.84	26.0/18.0
V-2-1-10	UZ	C 30/37	Q	1.11	26.0/18.0
V-2-1-11	UZ	C 30/37	Q	7.18	26.0/18.0
V-2-1-12	UZ	C 30/37	Q	3.49	26.0/40.0
V-2-2-1	UZ	C 30/37	Q	17.78	30.0/18.0
V-2-2-2	UZ	C 30/37	Q	7.54	30.0/18.0
V-2-2-3	UZ	C 30/37	Q	5.22	30.0/18.0
V-2-3-1	UZ	C 30/37	Q	23.78	25.0/18.0
V-2-3-2	UZ	C 30/37	Q	3.80	25.0/18.0

UZ : Unterzug
Q : Quarzit

Stahlbeton DIN EN 1992-1-1

Position	Material	μ	γ [kN/m ³]	G-Modul E-Modul [N/mm ²]
P-2-1	C 30/37	0.20	25.00	13750 33000
P-2-2	C 30/37	0.20	25.00	13750 33000
P-2-3	C 30/37	0.20	25.00	13750 33000
P-2-4	C 30/37	0.20	25.00	13750 33000
P-2-5	C 30/37	0.20	25.00	13750 33000
P-2-6	C 30/37	0.20	25.00	13750 33000
P-2-7	C 30/37	0.20	25.00	13750 33000
P-2-8	C 30/37	0.20	25.00	13750 33000
P-2-9	C 30/37	0.20	25.00	13750 33000
P-2-10-1	C 30/37	0.20	25.00	13750 33000
P-2-10-2	C 30/37	0.20	25.00	13750 33000
UZ-1	C 30/37	0.20	25.00	13750 33000
UZ-2	C 30/37	0.20	25.00	13750 33000
UZ-3	C 30/37	0.20	25.00	13750 33000
UZ-4	C 30/37	0.20	25.00	13750 33000
V-2-1-1	C 30/37	0.20	25.00	13750 33000
V-2-1-2	C 30/37	0.20	25.00	13750 33000
V-2-1-3	C 30/37	0.20	25.00	13750 33000
V-2-1-4	C 30/37	0.20	25.00	13750 33000
V-2-1-5	C 30/37	0.20	25.00	13750

Position	Material	μ	γ [kN/m ³]	G-Modul E-Modul [N/mm ²]
v-2-1-6	c 30/37	0.20	25.00	33000 13750
v-2-1-7	c 30/37	0.20	25.00	33000 13750
v-2-1-8	c 30/37	0.20	25.00	33000 13750
v-2-1-9	c 30/37	0.20	25.00	33000 13750
v-2-1-10	c 30/37	0.20	25.00	33000 13750
v-2-1-11	c 30/37	0.20	25.00	33000 13750
v-2-1-12	c 30/37	0.20	25.00	33000 13750
v-2-2-1	c 30/37	0.20	25.00	33000 13750
v-2-2-2	c 30/37	0.20	25.00	33000 13750
v-2-2-3	c 30/37	0.20	25.00	33000 13750
v-2-3-1	c 30/37	0.20	25.00	33000 13750
v-2-3-2	c 30/37	0.20	25.00	33000 13750

Betonstahl DIN EN 1992-1-1

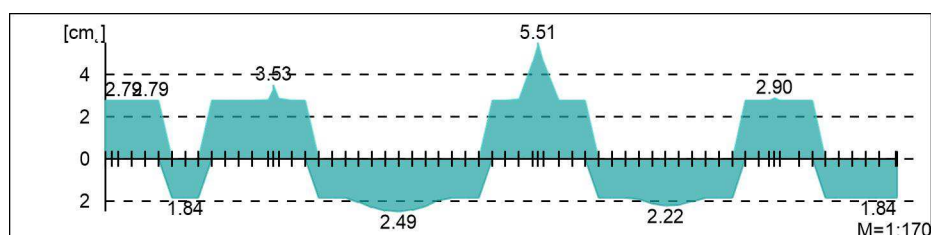
Material	μ	γ [kN/m ³]	G-Modul [N/mm ²]	E-Modul [N/mm ²]
B 500SA, B 500SB	0.30	78.50	77000	200000

Pos.P-2-1

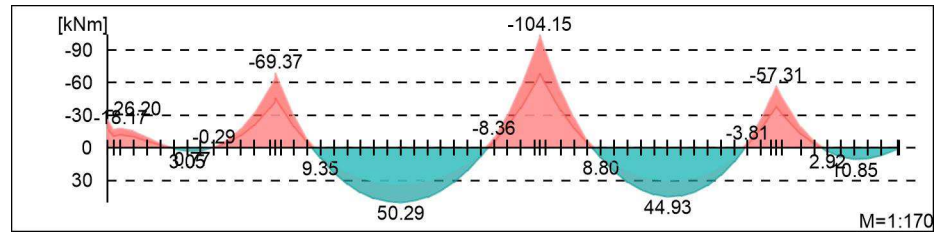
Bemessung im Grenzzustand der Tragfähigkeit

Längsbewehrung

Tragfähigkeitsnachweis: Längsbewehrung As oben / unten

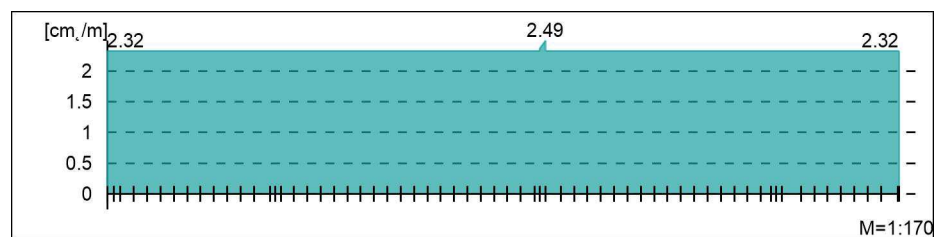


Tragfähigkeitsnachweis: Bemessungsmoment M_{Ed}

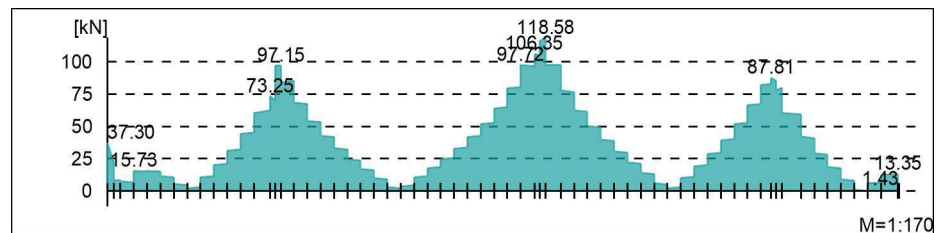


Bügelbewehrung $[cm^2/m]$:

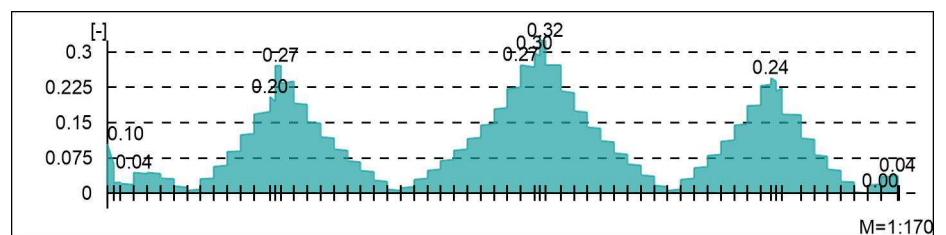
Tragfähigkeitsnachweis: Querkraftbewehrung Asw/sw



Tragfähigkeitsnachweis: Bemessungsquerkraft V_{Ed}

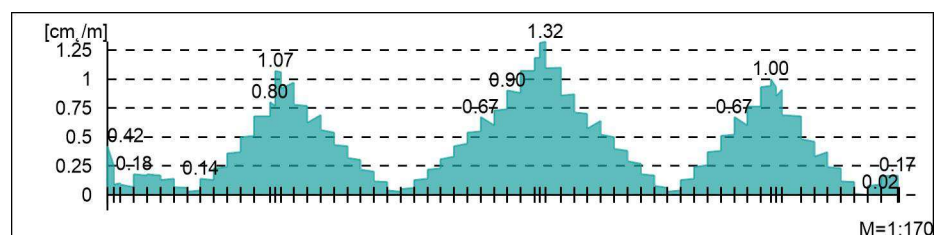


Tragfähigkeitsnachweis: Querkraftausnutzung $V_{Ed} / V_{Rd,max}$

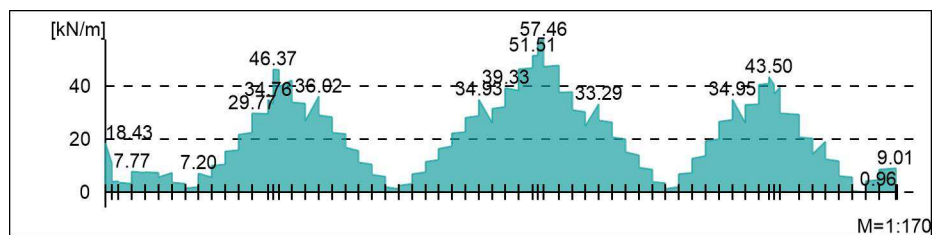


Gurtanschlussbewehrung $[cm^2/m]$:

Erforderliche Gurtanschlussbewehrung asf



Bemessungslängsschubkraft vEd

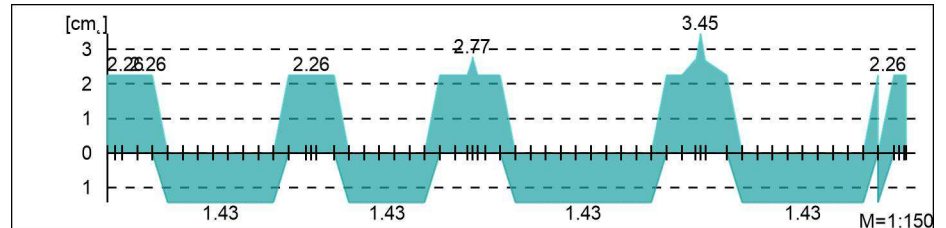


Pos.P-2-2

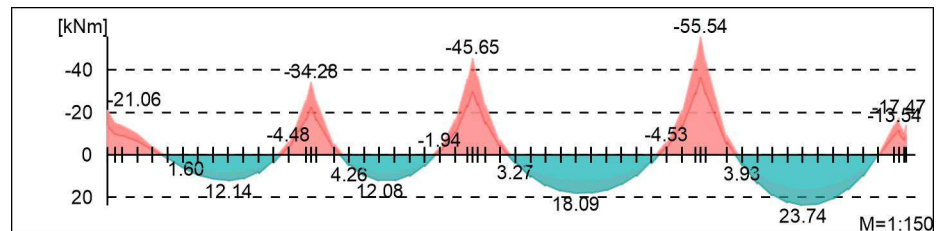
Bemessung im Grenzzustand der Tragfähigkeit

Längsbewehrung

Tragfähigkeitsnachweis: Längsbewehrung As oben / unten

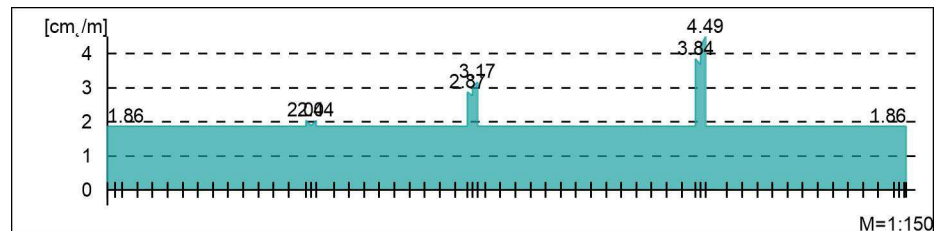


Tragfähigkeitsnachweis: Bemessungsmoment MED

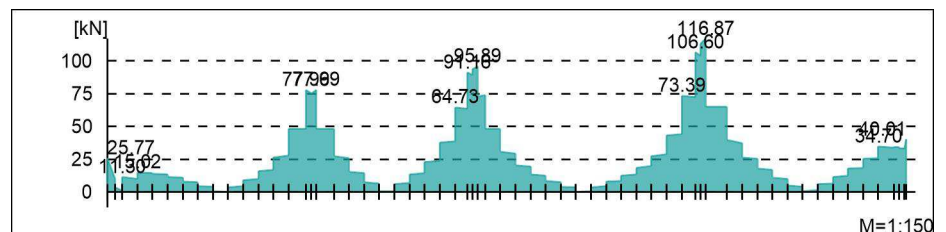


Bügelbewehrung [cm²/m]:

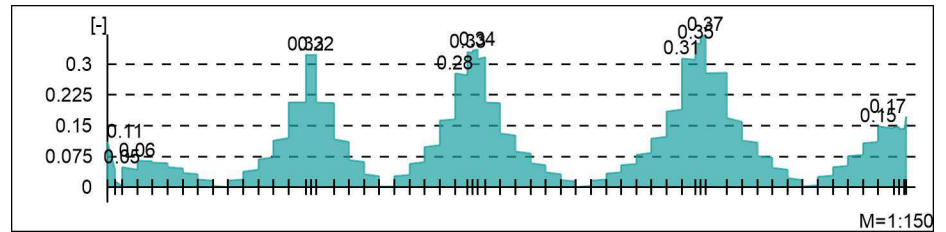
Tragfähigkeitsnachweis: Querkraftbewehrung Asw/sw



Tragfähigkeitsnachweis: Bemessungsquerkraft VEd

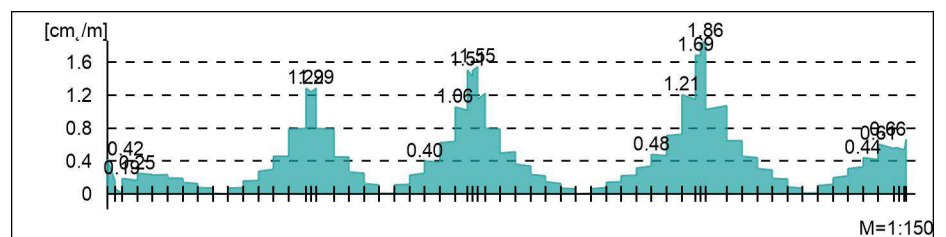


Tragfähigkeitsnachweis: Querkraftausnutzung $V_{Ed} / V_{Rd,max}$

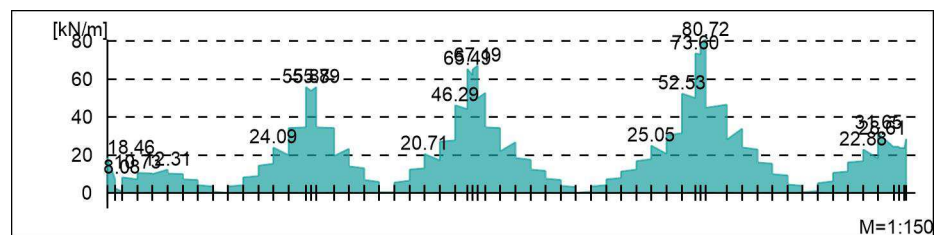


Gurtanschlussbewehrung [cm^2/m]:

Erforderliche Gurtanschlussbewehrung a_{sf}



Bemessungslängsschubkraft v_{Ed}

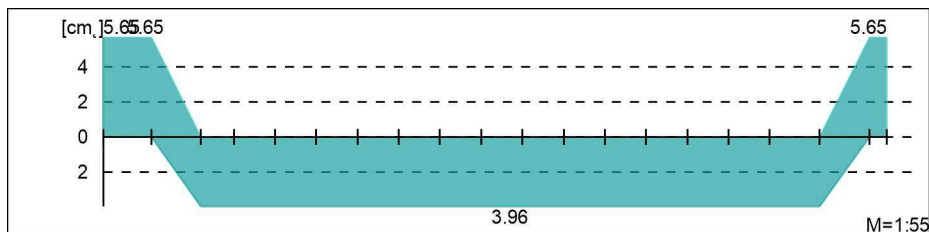


Pos.P-2-3

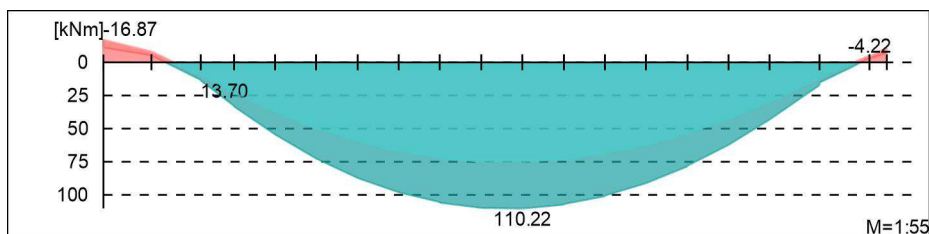
Bemessung im Grenzzustand der Tragfähigkeit

Längsbewehrung

Tragfähigkeitsnachweis: Längsbewehrung As oben / unten

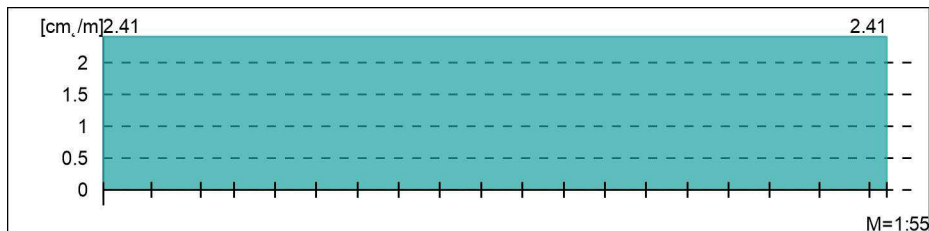


Tragfähigkeitsnachweis: Bemessungsmoment MEd

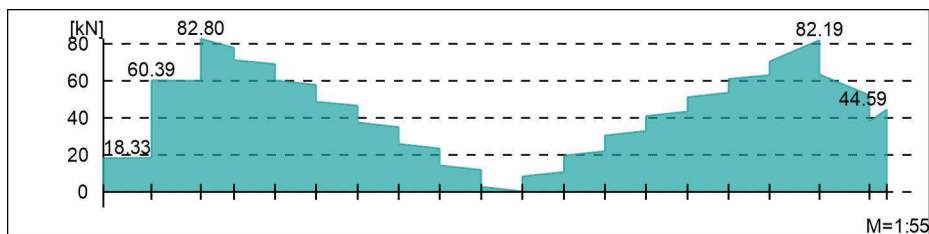


Bügelbewehrung [cm²/m]:

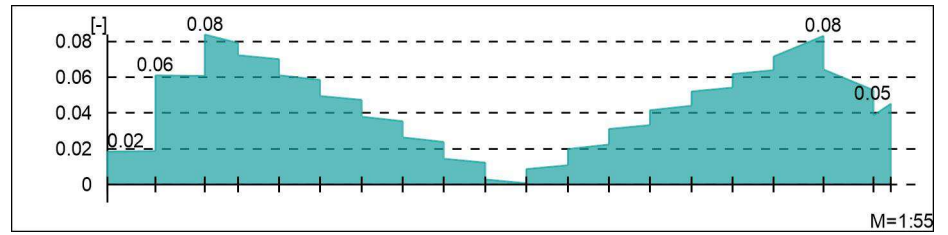
Tragfähigkeitsnachweis: Querkraftbewehrung Asw/sw



Tragfähigkeitsnachweis: Bemessungsquerkraft VEd

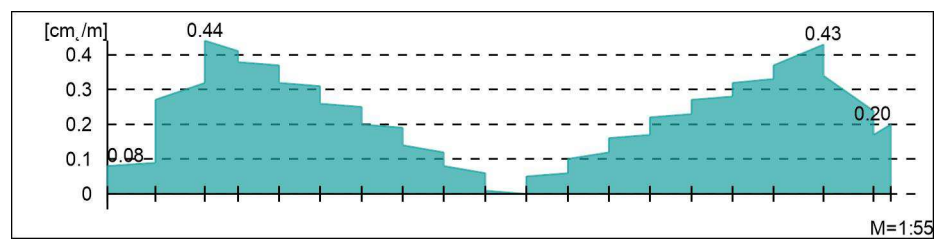


Tragfähigkeitsnachweis: Querkraftausnutzung $V_{Ed} / V_{Rd,max}$

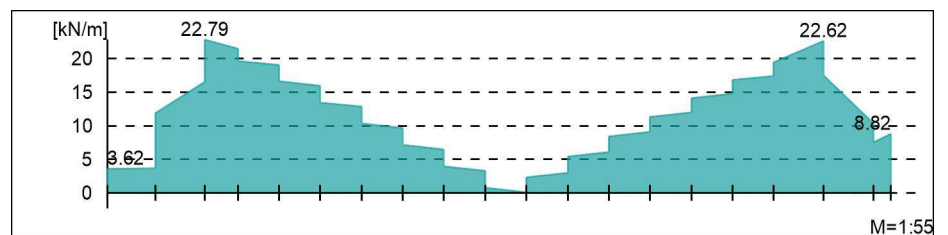


Gurtanschlussbewehrung [cm^2/m]:

Erforderliche Gurtanschlussbewehrung a_{sf}



Bemessungslängsschubkraft v_{Ed}

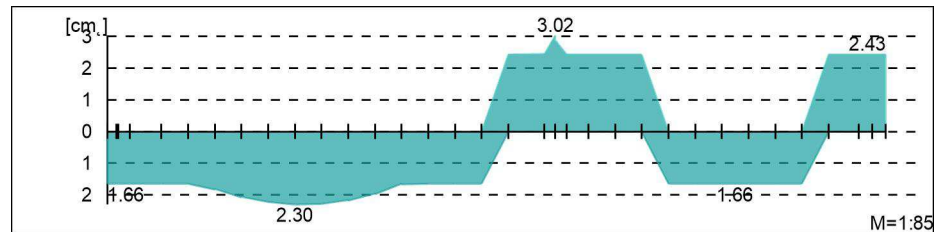


Pos.P-2-4

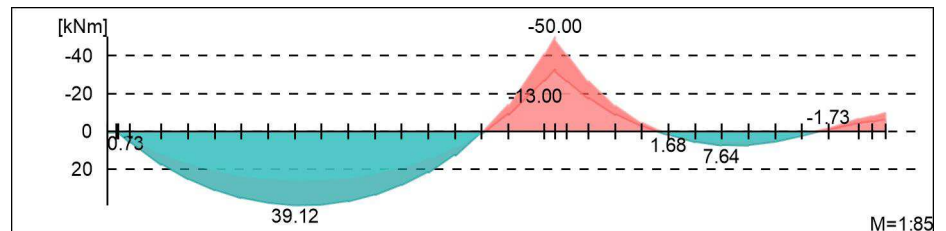
Bemessung im Grenzzustand der Tragfähigkeit

Längsbewehrung

Tragfähigkeitsnachweis: Längsbewehrung As oben / unten

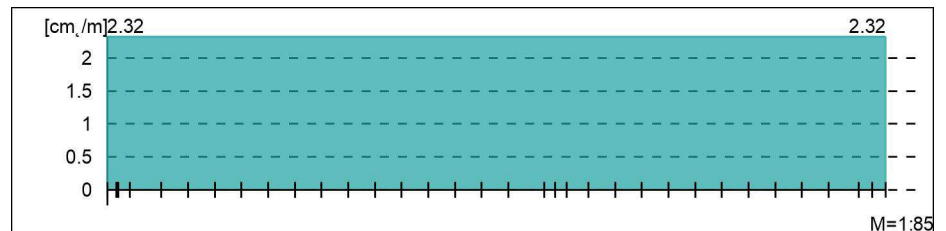


Tragfähigkeitsnachweis: Bemessungsmoment MEd

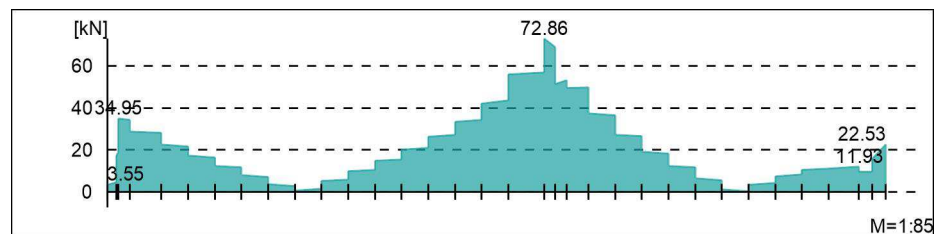


Bügelbewehrung [cm²/m]:

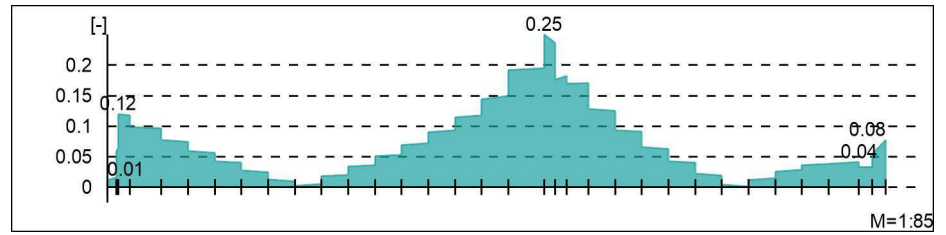
Tragfähigkeitsnachweis: Querkraftbewehrung Asw/sw



Tragfähigkeitsnachweis: Bemessungsquerkraft VEd

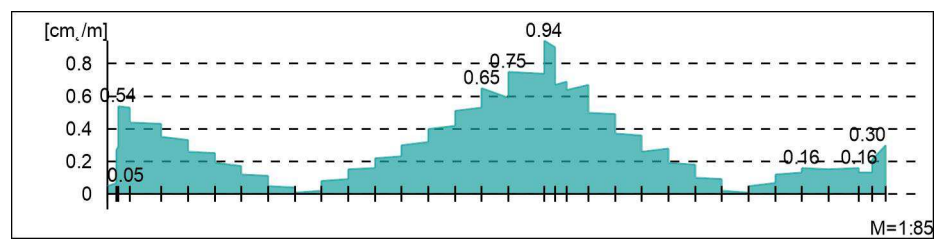


Tragfähigkeitsnachweis: Querkraftausnutzung $V_{Ed} / V_{Rd,max}$

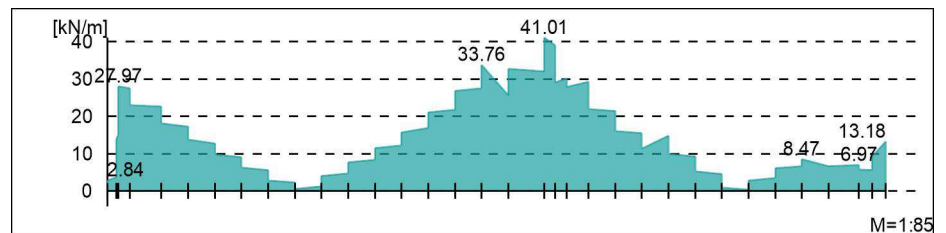


Gurtanschlussbewehrung [cm^2/m]:

Erforderliche Gurtanschlussbewehrung a_{sf}



Bemessungslängsschubkraft v_{Ed}

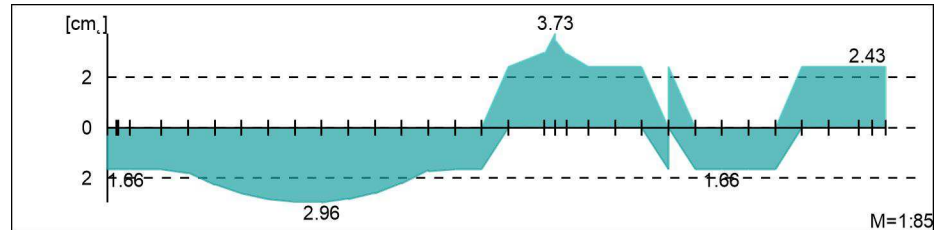


Pos.P-2-5

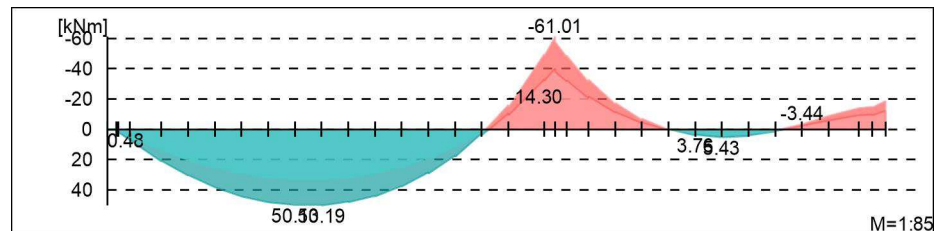
Bemessung im Grenzzustand der Tragfähigkeit

Längsbewehrung

Tragfähigkeitsnachweis: Längsbewehrung As oben / unten

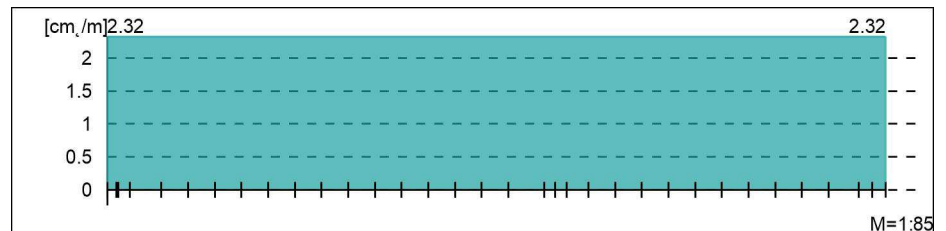


Tragfähigkeitsnachweis: Bemessungsmoment MED

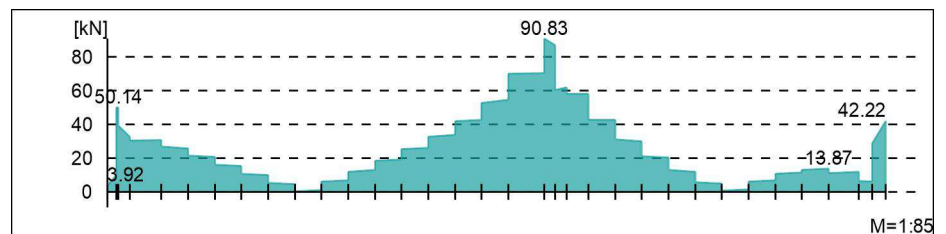


Bügelbewehrung [cm²/m]:

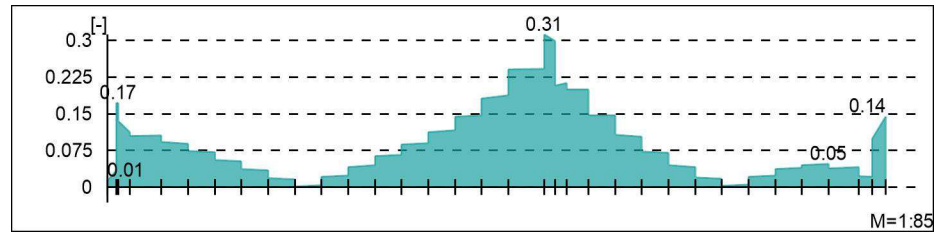
Tragfähigkeitsnachweis: Querkraftbewehrung Asw/sw



Tragfähigkeitsnachweis: Bemessungsquerkraft VEd

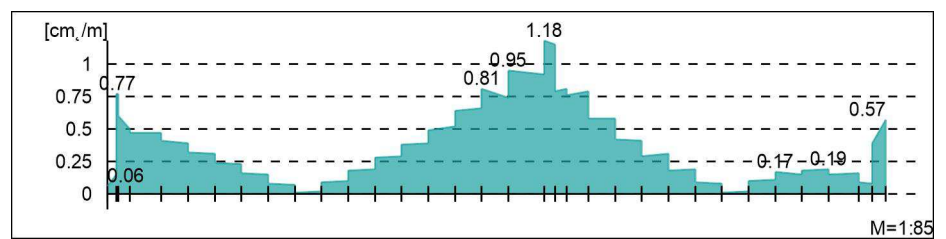


Tragfähigkeitsnachweis: Querkraftausnutzung $V_{Ed} / V_{Rd,max}$

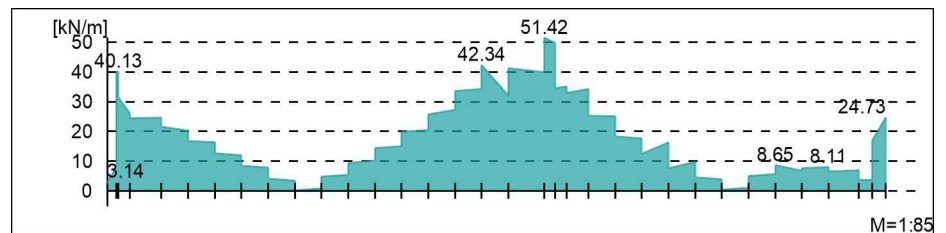


Gurtanschlussbewehrung $[cm^2/m]$:

Erforderliche Gurtanschlussbewehrung as_f



Bemessungslängsschubkraft V_{Ed}

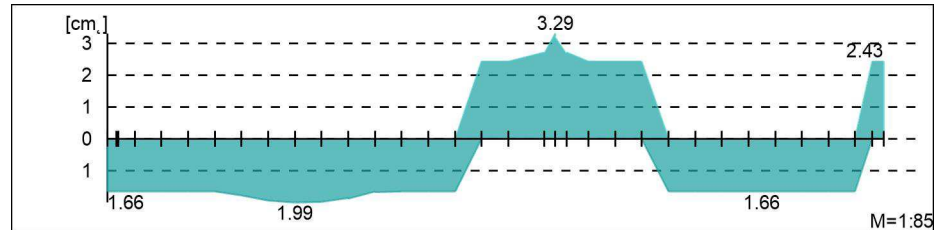


Pos.P-2-6

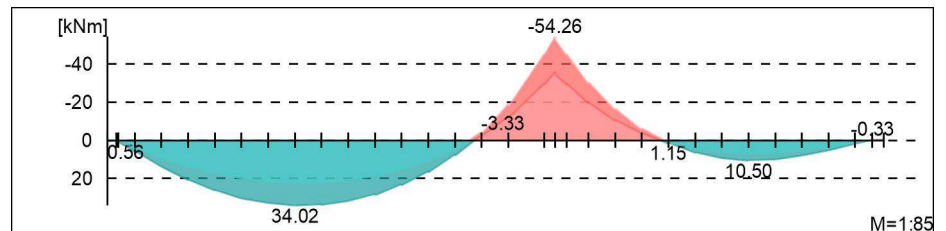
Bemessung im Grenzzustand der Tragfähigkeit

Längsbewehrung

Tragfähigkeitsnachweis: Längsbewehrung As oben / unten

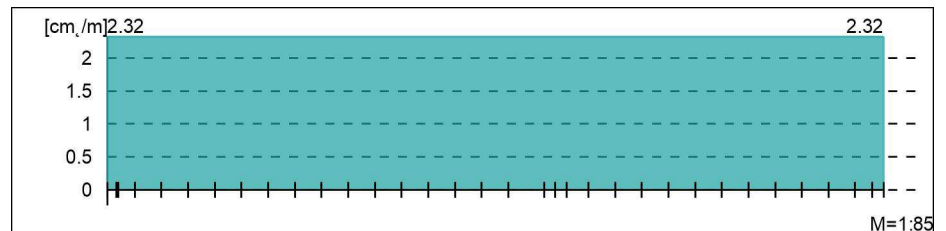


Tragfähigkeitsnachweis: Bemessungsmoment MED

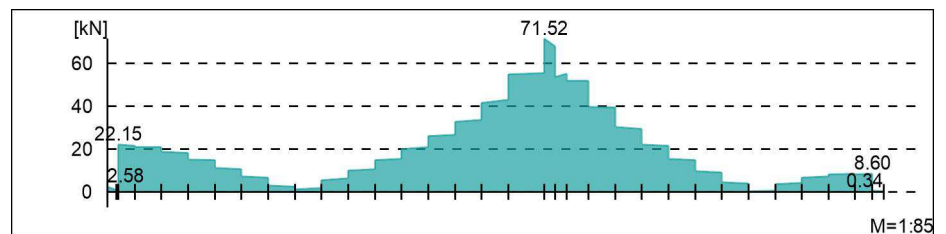


Bügelbewehrung [cm²/m]:

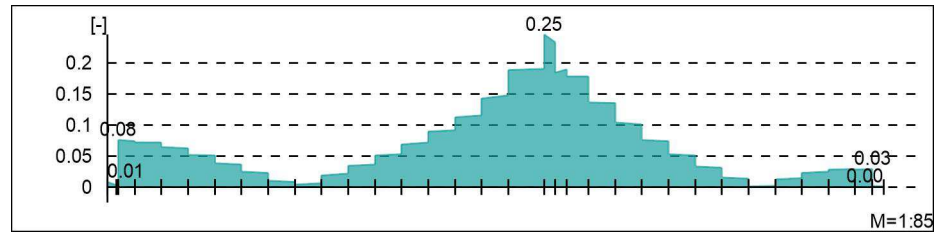
Tragfähigkeitsnachweis: Querkraftbewehrung Asw/sw



Tragfähigkeitsnachweis: Bemessungsquerkraft VEd

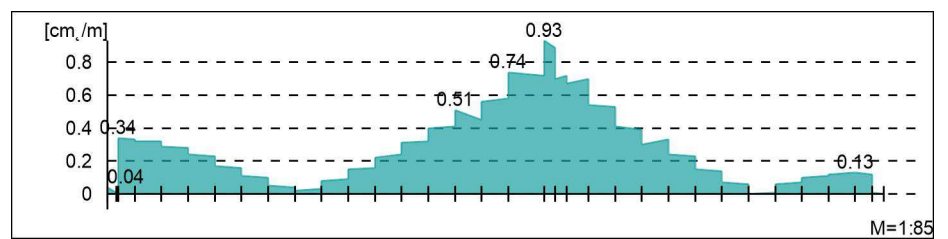


Tragfähigkeitsnachweis: Querkraftausnutzung $V_{Ed} / V_{Rd,max}$

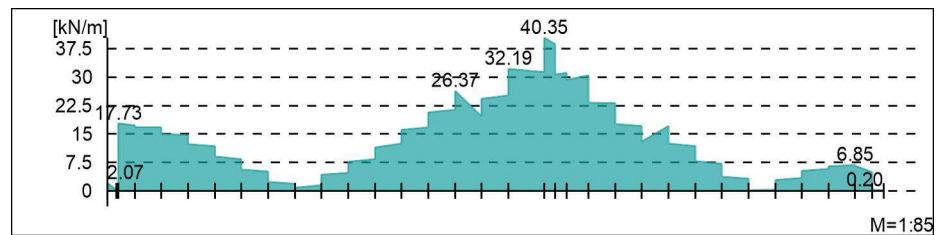


Gurtanschlussbewehrung [cm^2/m]:

Erforderliche Gurtanschlussbewehrung a_{sf}



Bemessungslängsschubkraft v_{Ed}

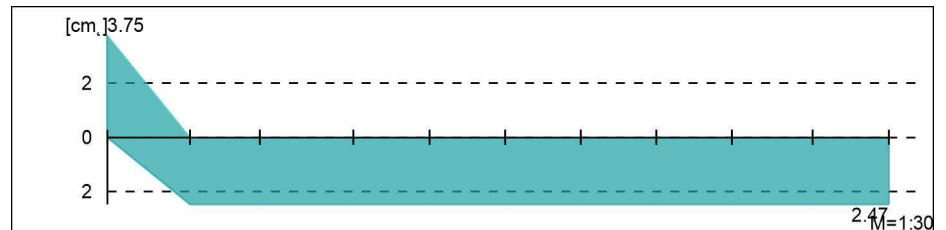


Pos.P-2-7

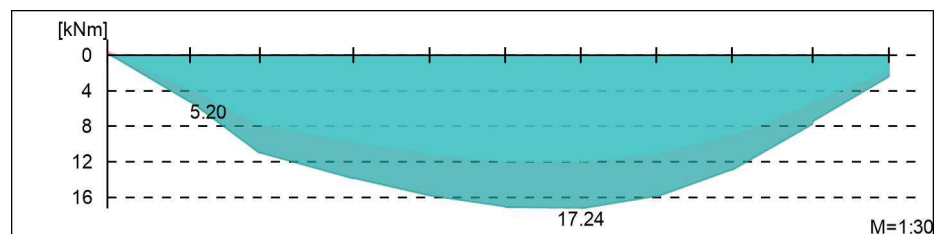
Bemessung im Grenzzustand der Tragfähigkeit

Längsbewehrung

Tragfähigkeitsnachweis: Längsbewehrung A_s oben / unten

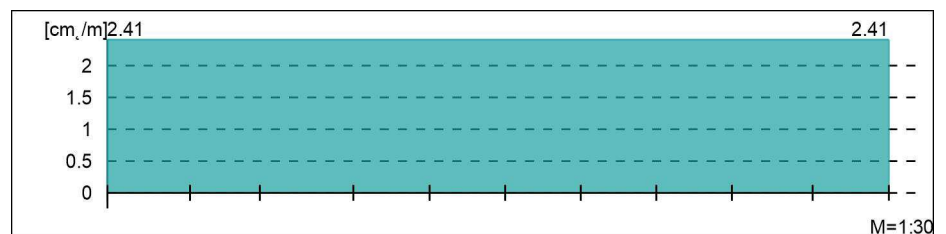


Tragfähigkeitsnachweis: Bemessungsmoment M_{Ed}

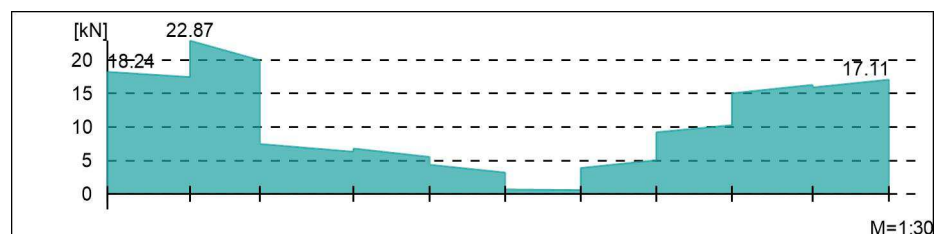


Bügelbewehrung $[cm^2/m]$:

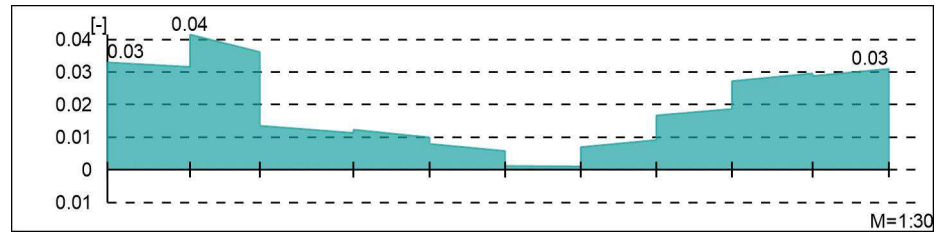
Tragfähigkeitsnachweis: Querkraftbewehrung A_{sw}/s_w



Tragfähigkeitsnachweis: Bemessungsquerkraft V_{Ed}

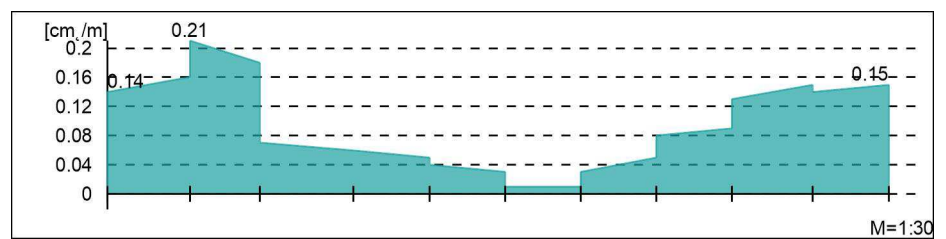


Tragfähigkeitsnachweis: Querkraftausnutzung $V_{Ed} / V_{Rd,max}$

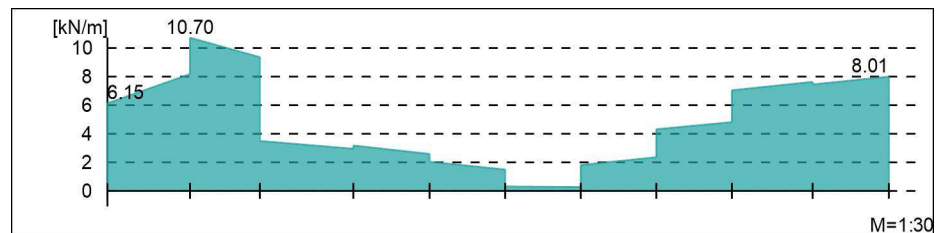


Gurtanschlussbewehrung $[cm^2/m]$:

Erforderliche Gurtanschlussbewehrung asf



Bemessungslängsschubkraft v_{Ed}

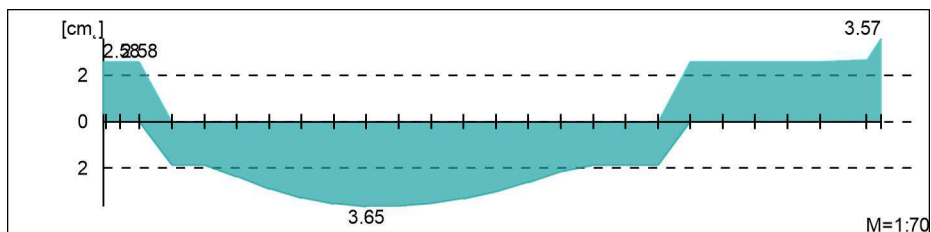


Pos.P-2-8

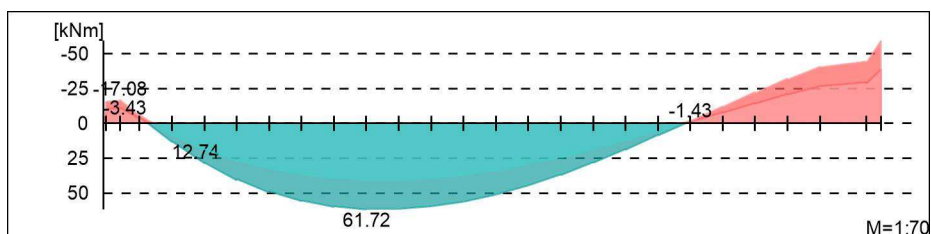
Bemessung im Grenzzustand der Tragfähigkeit

Längsbewehrung

Tragfähigkeitsnachweis: Längsbewehrung As oben / unten

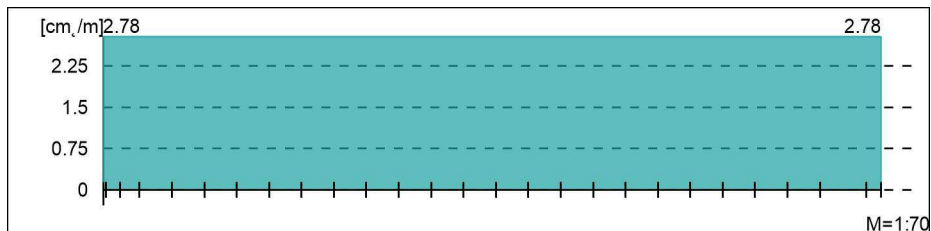


Tragfähigkeitsnachweis: Bemessungsmoment MEd

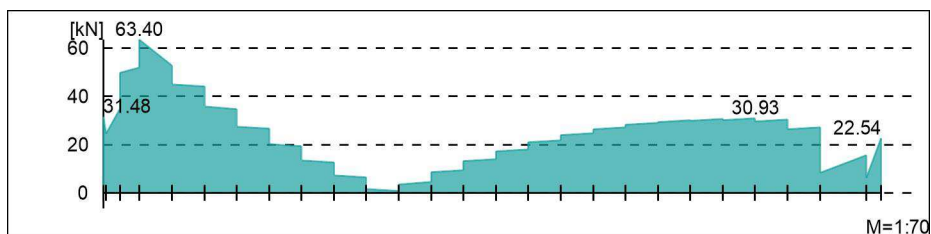


Bügelbewehrung [cm²/m]:

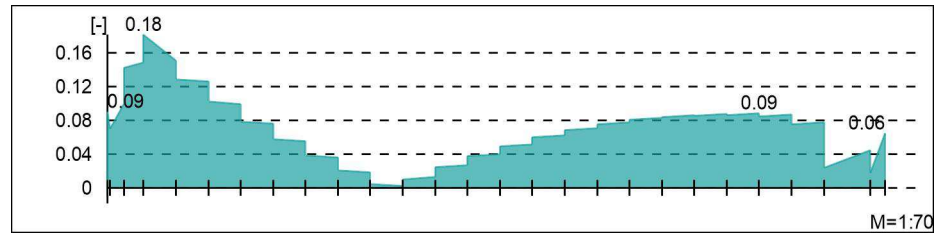
Tragfähigkeitsnachweis: Querkraftbewehrung Asw/sw



Tragfähigkeitsnachweis: Bemessungsquerkraft VEd

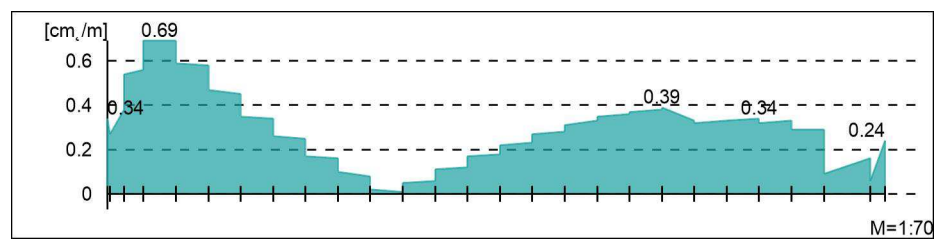


Tragfähigkeitsnachweis: Querkraftausnutzung $V_{Ed} / V_{Rd,max}$

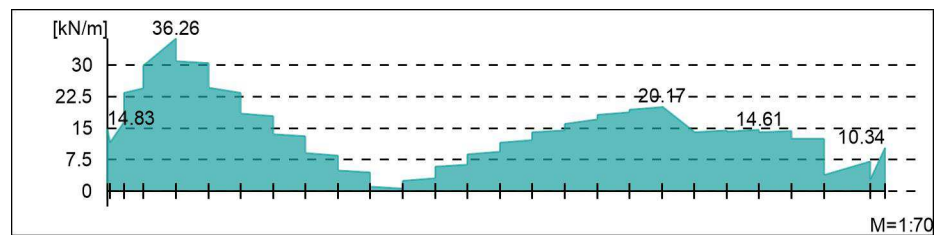


Gurtanschlussbewehrung $[cm^2/m]$:

Erforderliche Gurtanschlussbewehrung asf



Bemessungslängsschubkraft v_{Ed}

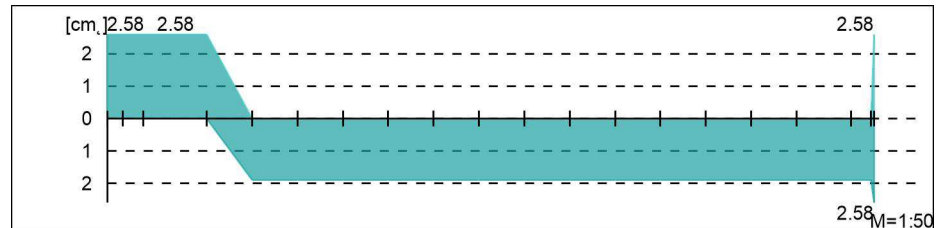


Pos.P-2-9

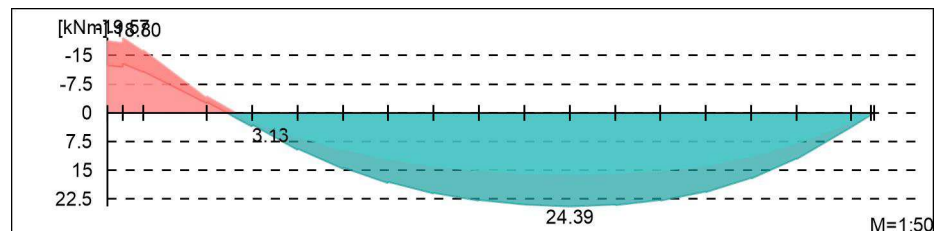
Bemessung im Grenzzustand der Tragfähigkeit

Längsbewehrung

Tragfähigkeitsnachweis: Längsbewehrung As oben / unten

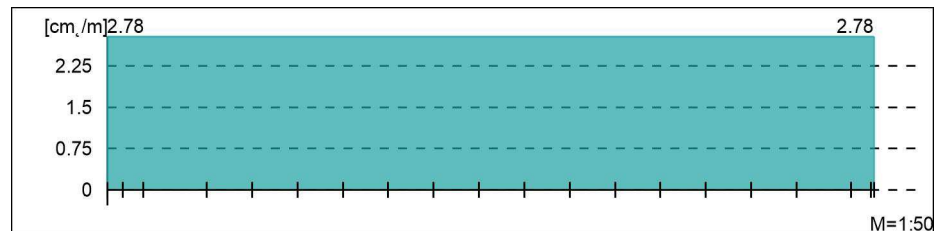


Tragfähigkeitsnachweis: Bemessungsmoment MEd

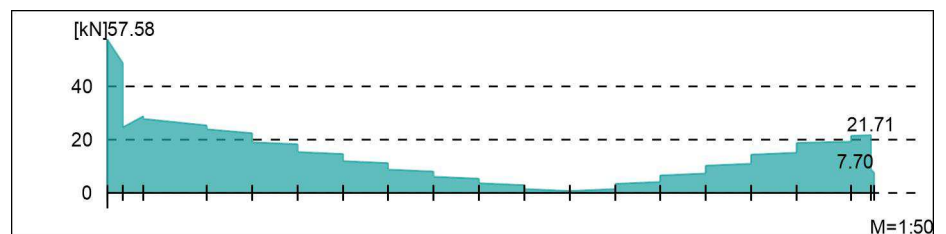


Bügelbewehrung [cm²/m]:

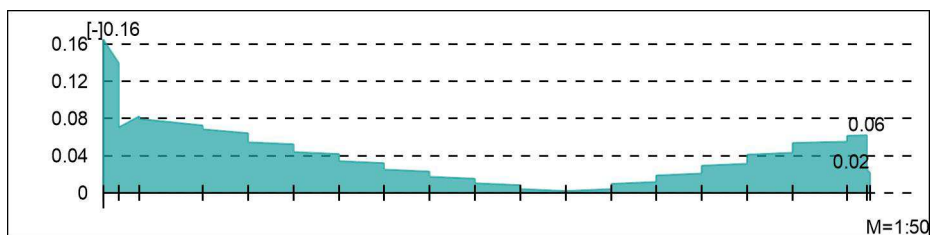
Tragfähigkeitsnachweis: Querkraftbewehrung Asw/sw



Tragfähigkeitsnachweis: Bemessungsquerkraft VEd

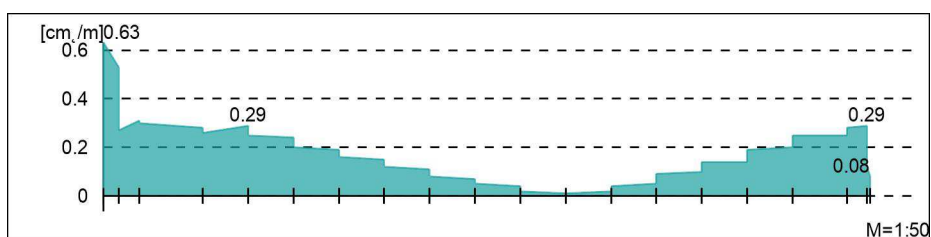


Tragfähigkeitsnachweis: Querkraftausnutzung V_{Ed} / $VR_{d,max}$

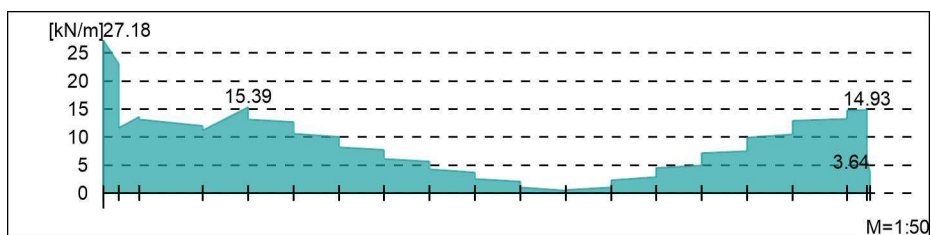


Gurtanschlussbewehrung [cm^2/m]:

Erforderliche Gurtanschlussbewehrung as_f



Bemessungslängsschubkraft v_{Ed}

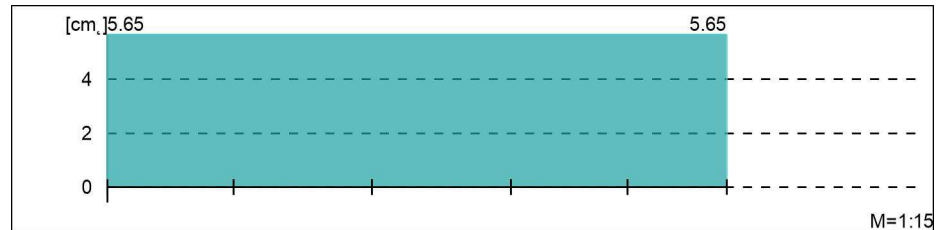


Pos.P-2-10-1

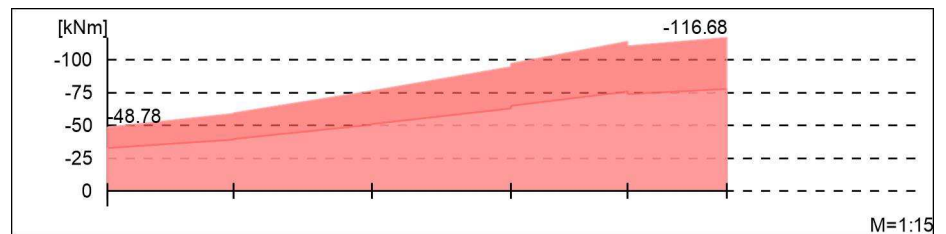
Bemessung im Grenzzustand der Tragfähigkeit

Längsbewehrung

Tragfähigkeitsnachweis: Längsbewehrung As oben / unten

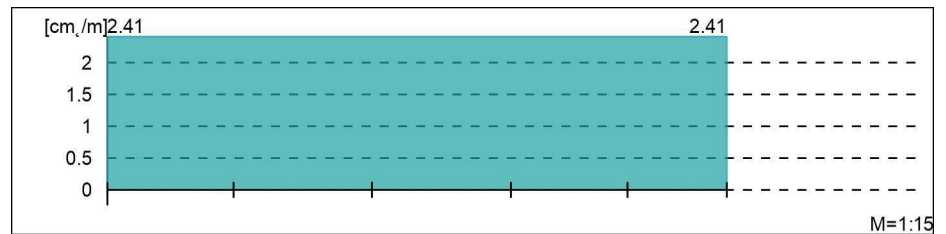


Tragfähigkeitsnachweis: Bemessungsmoment MED

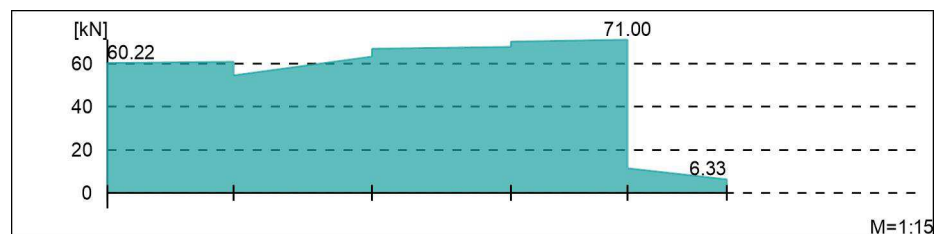


Bügelbewehrung [cm²/m]:

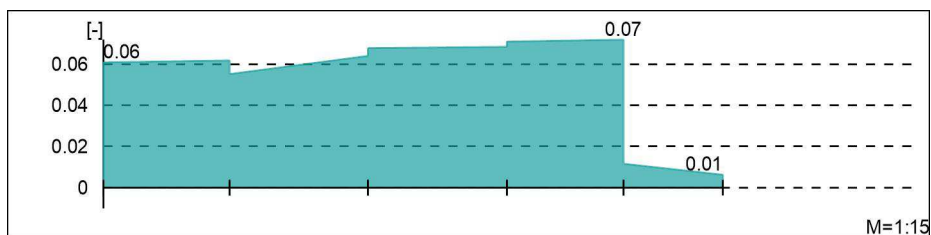
Tragfähigkeitsnachweis: Querkraftbewehrung Asw/sw



Tragfähigkeitsnachweis: Bemessungsquerkraft VEd

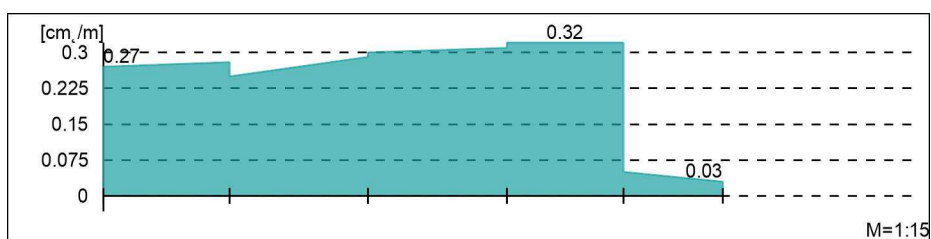


Tragfähigkeitsnachweis: Querkraftausnutzung $V_{Ed} / V_{Rd,max}$

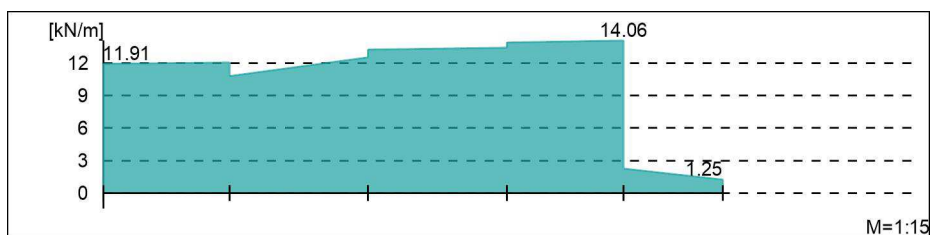


Gurtanschlussbewehrung $[cm^2/m]$:

Erforderliche Gurtanschlussbewehrung as_f



Bemessungslängsschubkraft v_{Ed}

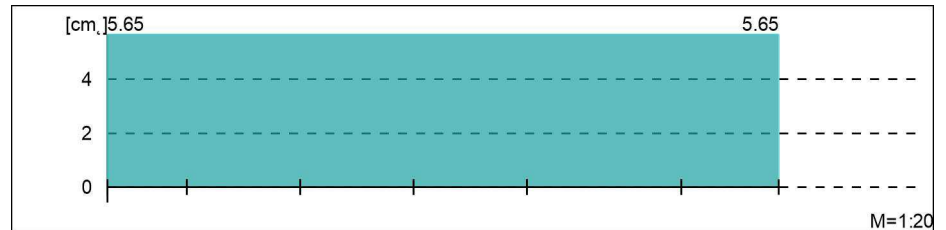


Pos.P-2-10-2

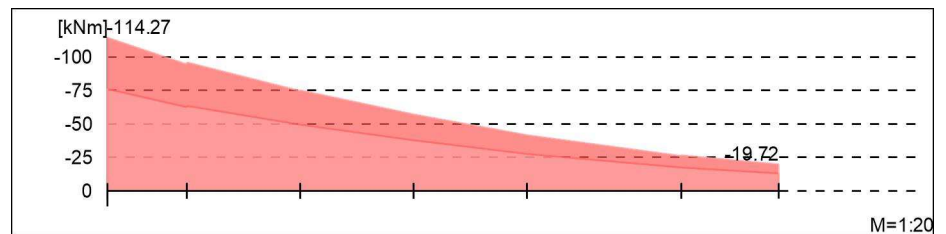
Bemessung im Grenzzustand der Tragfähigkeit

Längsbewehrung

Tragfähigkeitsnachweis: Längsbewehrung A_s oben / unten

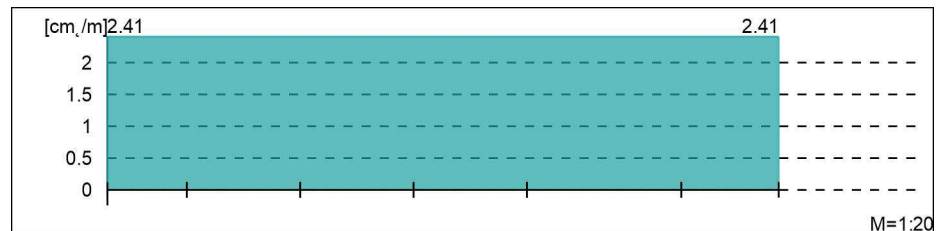


Tragfähigkeitsnachweis: Bemessungsmoment M_{Ed}

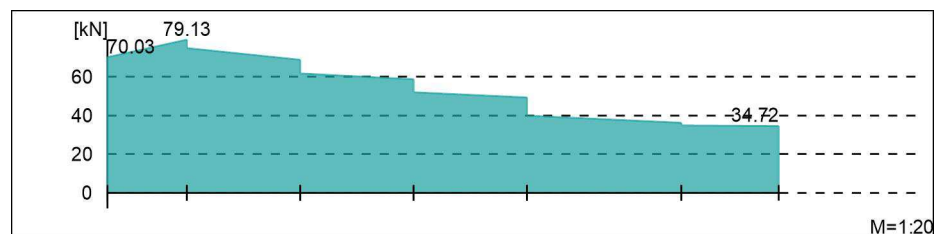


Bügelbewehrung $[cm^2/m]$:

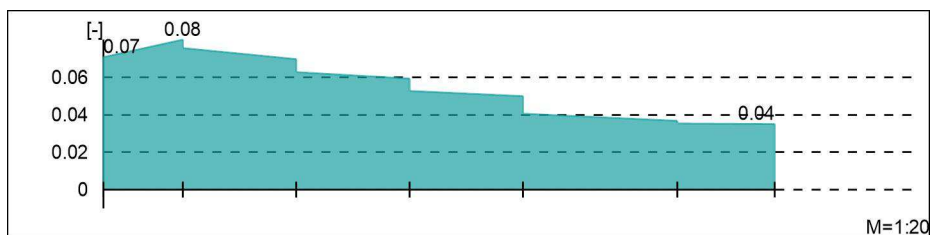
Tragfähigkeitsnachweis: Querkraftbewehrung A_{sw}/s_w



Tragfähigkeitsnachweis: Bemessungsquerkraft V_{Ed}

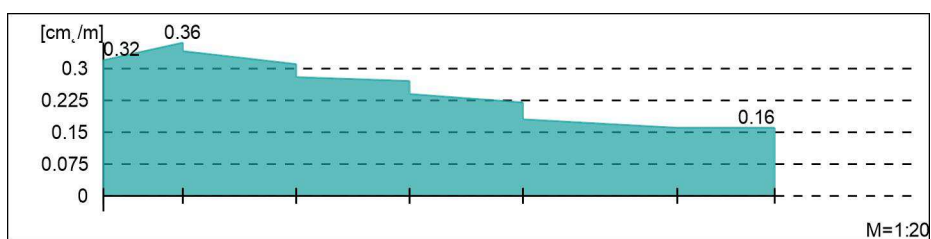


Tragfähigkeitsnachweis: Querkraftausnutzung V_{Ed} / $VR_{d,max}$

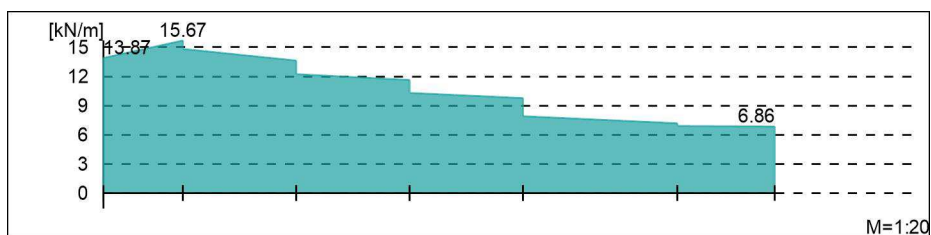


Gurtanschlussbewehrung $[cm^2/m]$:

Erforderliche Gurtanschlussbewehrung asf

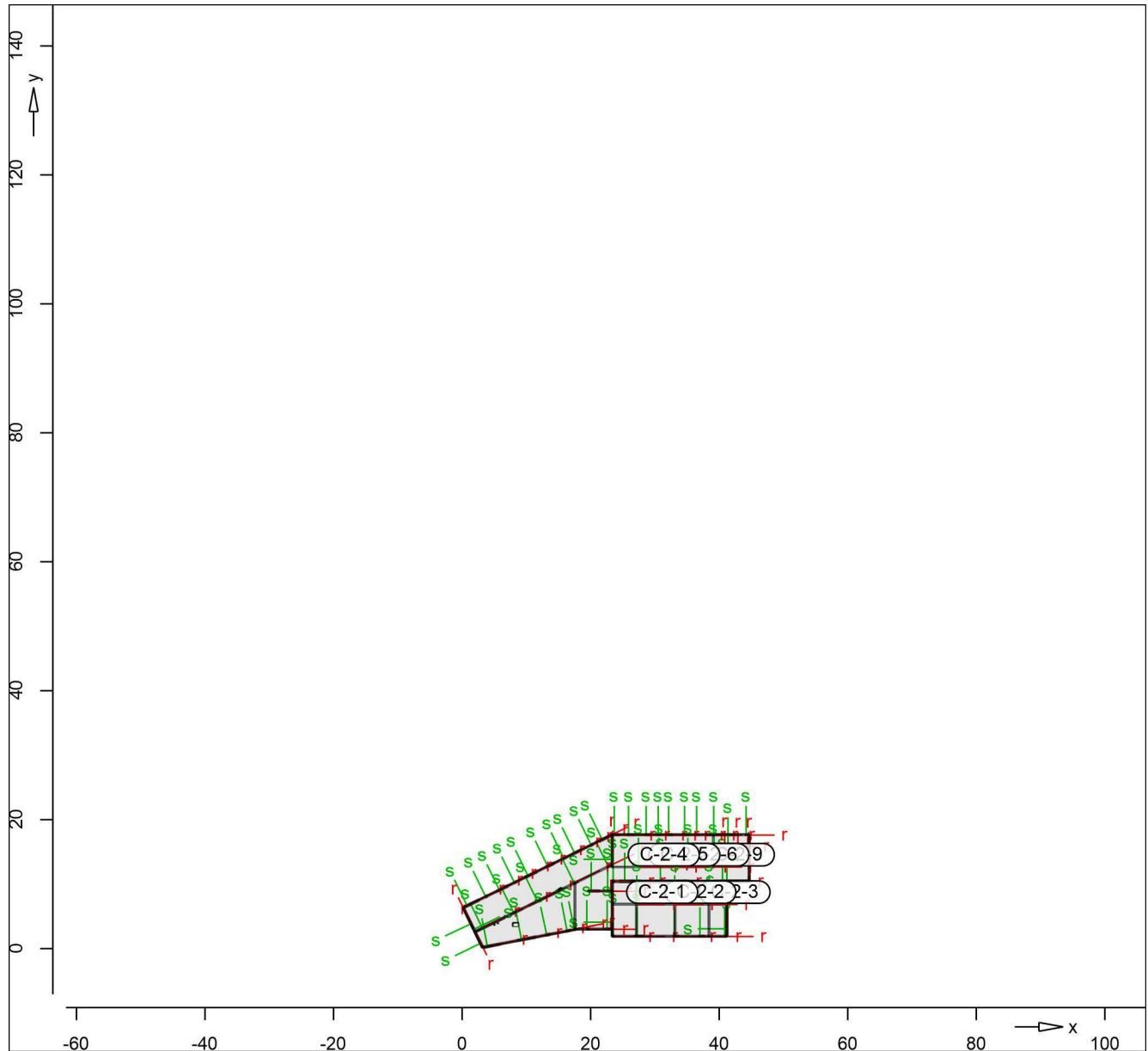


Bemessungslängsschubkraft v_{Ed}



Stützenkräfte je Einwirkung

System



Charakteristische Stützenkräfte
 Auswertung mit MIN/MAX-Überlagerung je Einwirkung

g ständige Einwirkung

Einwirkungen

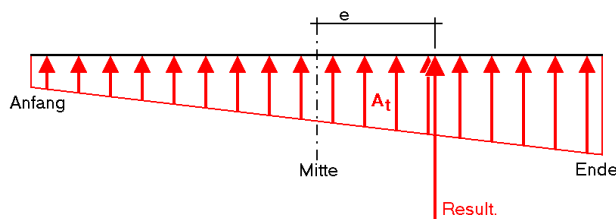
EW	Beschreibung	Einwirkung
1	Ständige Einwirkung	Gk
2	Veränderliche Einwirkung	Qk.N
3	Schneeeinwirkung	Qk.S
4	Windeinwirkung	Qk.W

Position	X	Y	EW		Ft	Mr	Ms
C-2-1	27.18	6.83	1	g	190.99	-1.62	-1.74
			2	min	0.00	0.00	0.00
				max	0.00	0.00	0.00
			3	min	0.00	-0.18	-0.19
				max	20.58	0.00	0.00
			4	min	0.00	0.00	0.00
				max	0.00	0.00	0.00
C-2-2	33.13	6.83	1	g	244.99	-2.39	0.31
			2	min	0.00	0.00	0.00
				max	0.00	0.00	0.00
			3	min	0.00	-0.26	0.00
				max	26.56	0.00	0.03
			4	min	0.00	0.00	0.00
				max	0.00	0.00	0.00
C-2-3	38.45	6.83	1	g	189.75	-1.08	1.45
			2	min	0.00	0.00	0.00
				max	0.00	0.00	0.00
			3	min	0.00	-0.12	0.00
				max	20.31	0.00	0.17
			4	min	0.00	0.00	0.00
				max	0.00	0.00	0.00
C-2-4	27.45	12.64	1	g	111.69	1.22	-0.07
			2	min	0.00	0.00	0.00
				max	0.00	0.00	0.00
			3	min	0.00	0.00	-0.01
				max	12.57	0.14	0.00
			4	min	0.00	0.00	0.00
				max	0.00	0.00	0.00
C-2-5	30.65	12.64	1	g	131.79	1.61	-0.42
			2	min	0.00	0.00	0.00
				max	0.00	0.00	0.00
			3	min	0.00	0.00	-0.05
				max	14.91	0.19	0.00
			4	min	0.00	0.00	0.00
				max	0.00	0.00	0.00
C-2-6	35.18	12.64	1	g	156.21	1.35	-0.06
			2	min	0.00	0.00	0.00
				max	0.00	0.00	0.00
			3	min	0.00	0.00	0.00
				max	17.53	0.16	0.00
			4	min	0.00	0.00	0.00
				max	0.00	0.00	0.00
C-2-9	39.12	12.64	1	g	93.37	0.60	1.95
			2	min	0.00	0.00	0.00
				max	0.00	0.00	0.00
			3	min	0.00	0.00	0.00
				max	10.22	0.07	0.22
			4	min	0.00	0.00	0.00
				max	0.00	0.00	0.00

Einwirkungen

EW	Beschreibung	Einwirkung
1	Ständige Einwirkung	Gk
2	Veränderliche Einwirkung	Qk.N
3	Schneeeinwirkung	Qk.S
4	Windeinwirkung	Qk.W

Linienlager-Auswertung je Einwirkung - Auflagergröße Ft



Charakteristische Linienlagerkräfte
 aus MIN/MAX-Überlagerung je Einwirkung

Result. Resultierende Gesamtauflagerkraft
 e Abstand der Resultierenden zur Mitte
 des Polygonabschnitts
 g ständige Einwirkung

Reihenfolge der Ausgabe: min Ft Mitte
 max Ft Mitte

Position	Länge [m]	EW	----- Anfang	Ft [kN/m] Mitte	----- Ende	Result. [kN]	e [m]
C-2-7	0.90	1 g	211.127	209.555	207.983	188.600	0.00
		2 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		3 min	0.000	0.000	0.000	0.000	0.00
		max	23.280	23.147	23.014	20.832	0.00
		4 min	0.000	0.000	0.000	0.000	0.00
max	0.000	0.000	0.000	0.000	0.00		
C-2-8	0.43	1 g	322.209	358.102	393.994	152.337	0.01
		2 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		3 min	0.000	0.000	0.000	0.000	0.00
		max	30.503	34.185	37.867	14.542	0.01
		4 min	0.000	0.000	0.000	0.000	0.00
max	0.000	0.000	0.000	0.000	0.00		
C-2-10	0.40	1 g	33.750	31.906	30.062	12.762	0.00
		2 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		3 min	0.000	0.000	0.000	0.000	0.00
		max	2.607	2.405	2.203	0.962	-0.01
		4 min	0.000	0.000	0.000	0.000	0.00
max	0.000	0.000	0.000	0.000	0.00		
W-1	3.00	1 g	43.702	25.505	7.308	76.515	-0.36
		2 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		3 min	0.000	0.000	0.000	0.000	0.00
		max	3.735	2.228	0.721	6.684	-0.34
		4 min	0.000	0.000	0.000	0.000	0.00
max	0.000	0.000	0.000	0.000	0.00		
W-2	0.47	1 g	55.481	51.992	48.503	24.455	-0.01

Position	Länge [m]	EW	----- Ft [kN/m] -----			Result.	e
			Anfang	Mitte	Ende	[kN]	[m]
		2 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		3 min	0.000	0.000	0.000	0.000	0.00
		max	4.742	4.443	4.145	2.090	-0.01
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-3	2.90	1 g	26.434	32.810	39.185	95.148	0.09
		2 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		3 min	0.000	0.000	0.000	0.000	0.00
		max	2.261	3.193	4.125	9.260	0.14
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-4	2.07	1 g	34.197	22.255	10.313	46.068	-0.19
		2 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		3 min	0.000	0.000	0.000	0.000	0.00
		max	3.493	2.180	0.868	4.513	-0.21
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-5	3.65	1 g	11.744	10.030	8.316	36.589	-0.10
		2 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		3 min	0.000	0.000	0.000	0.000	0.00
		max	1.149	0.841	0.532	3.067	-0.22
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-6	2.80	1 g	6.400	6.189	5.978	17.357	-0.02
		2 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		3 min	0.000	0.000	0.000	0.000	0.00
		max	0.329	0.400	0.470	1.120	0.08
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-7	2.74	1 g	-1.891	17.740	37.372	48.609	0.51
		2 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		3 min	0.000	0.000	0.000	0.000	0.00
		max	-0.517	1.562	3.640	4.279	0.61
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-8	0.50	1 g	51.032	51.516	52.000	25.758	0.00
		2 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		3 min	0.000	0.000	0.000	0.000	0.00
		max	4.856	4.901	4.945	2.450	0.00
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-9	2.00	1 g	34.545	30.972	27.399	61.944	-0.04
		2 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		3 min	0.000	0.000	0.000	0.000	0.00
		max	3.271	2.903	2.535	5.806	-0.04
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-10	0.50	1 g	42.896	43.415	43.935	21.708	0.00
		2 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		3 min	0.000	0.000	0.000	0.000	0.00

Position	Länge [m]	EW	----- Ft [kN/m] -----			Result.	e
			Anfang	Mitte	Ende	[kN]	[m]
W-11	2.00	max	3.946	3.992	4.037	1.996	0.00
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		1 g	30.724	27.701	24.678	55.403	-0.04
		2 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		3 min	0.000	0.000	0.000	0.000	0.00
		max	2.797	2.508	2.218	5.015	-0.04
		4 min	0.000	0.000	0.000	0.000	0.00
W-12	1.50	max	0.000	0.000	0.000	0.000	0.00
		1 g	29.361	31.161	32.962	46.742	0.01
		2 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		3 min	0.000	0.000	0.000	0.000	0.00
		max	2.653	2.822	2.991	4.232	0.01
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-13	0.68	1 g	40.260	39.443	38.625	27.018	0.00
		2 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		3 min	0.000	0.000	0.000	0.000	0.00
		max	3.687	3.626	3.565	2.484	0.00
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-14	1.58	1 g	32.697	38.752	44.808	61.422	0.04
		2 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		3 min	0.000	0.000	0.000	0.000	0.00
		max	3.084	3.693	4.303	5.854	0.04
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-15	0.50	1 g	51.547	50.163	48.780	25.082	0.00
		2 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		3 min	0.000	0.000	0.000	0.000	0.00
		max	4.821	4.677	4.533	2.339	0.00
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-16	2.25	1 g	22.550	8.120	-6.310	18.287	-0.67
		2 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		3 min	0.000	0.000	0.000	0.000	0.00
		max	1.901	0.463	-0.975	1.043	-1.17
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-17	1.28	1 g	-2.533	7.698	17.929	9.887	0.28
		2 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		3 min	0.000	0.000	0.000	0.000	0.00
		max	-0.606	0.445	1.495	0.571	0.51
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-18	1.25	1 g	30.733	38.632	46.532	48.290	0.04
		2 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		3 min	0.000	0.000	0.000	0.000	0.00
		max	2.856	3.681	4.507	4.602	0.05
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00

Position	Länge [m]	EW	----- Anfang	Ft [kN/m] Mitte	----- Ende	Result. [kN]	e [m]
W-19	1.00	1 g	52.389	51.784	51.179	51.784	0.00
		2 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		3 min	0.000	0.000	0.000	0.000	0.00
		max	5.110	5.052	4.995	5.052	0.00
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-20	0.50	1 g	54.951	54.968	54.985	27.484	0.00
		2 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		3 min	0.000	0.000	0.000	0.000	0.00
		max	5.366	5.369	5.372	2.685	0.00
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-21	1.00	1 g	51.460	52.672	53.884	52.672	0.00
		2 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		3 min	0.000	0.000	0.000	0.000	0.00
		max	5.037	5.159	5.282	5.159	0.00
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-22	1.00	1 g	54.123	53.162	52.201	53.162	0.00
		2 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		3 min	0.000	0.000	0.000	0.000	0.00
		max	5.300	5.196	5.092	5.196	0.00
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-23	0.50	1 g	54.173	53.206	52.238	26.603	0.00
		2 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		3 min	0.000	0.000	0.000	0.000	0.00
		max	5.242	5.137	5.031	2.568	0.00
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-24	5.15	1 g	27.266	15.072	2.878	77.621	-0.69
		2 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		3 min	0.000	0.000	0.000	0.000	0.00
		max	2.526	1.247	-0.033	6.420	-0.88
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-25	0.65	1 g	13.355	11.832	10.309	7.691	-0.01
		2 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		3 min	0.000	0.000	0.000	0.000	0.00
		max	0.942	0.796	0.651	0.517	-0.02
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-26	2.93	1 g	-2.450	18.659	39.769	54.749	0.55
		2 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		3 min	0.000	0.000	0.000	0.000	0.00
		max	-0.394	1.583	3.559	4.644	0.61
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-27	3.00	1 g	33.209	31.559	29.909	94.676	-0.03
		2 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00

Position	Länge [m]	EW	----- Ft [kN/m] -----			Result.	e
			Anfang	Mitte	Ende	[kN]	[m]
W-28	0.75	3 min	0.000	0.000	0.000	0.000	0.00
		max	2.765	2.858	2.951	8.573	0.02
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		1 g	65.451	68.007	70.562	51.005	0.00
		2 min	0.000	0.000	0.000	0.000	0.00
W-29	0.75	max	0.000	0.000	0.000	0.000	0.00
		3 min	0.000	0.000	0.000	0.000	0.00
		max	6.373	6.604	6.835	4.953	0.00
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		1 g	25.097	26.781	28.465	20.086	0.01
W-30	0.50	2 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		3 min	0.000	0.000	0.000	0.000	0.00
		max	2.096	2.288	2.480	1.716	0.01
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-31	1.09	1 g	37.606	37.337	37.068	18.669	0.00
		2 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		3 min	0.000	0.000	0.000	0.000	0.00
		max	2.791	2.683	2.574	1.341	0.00
		4 min	0.000	0.000	0.000	0.000	0.00
W-32	8.65	max	0.000	0.000	0.000	0.000	0.00
		1 g	30.934	28.688	26.443	248.163	-0.11
		2 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		3 min	0.000	0.000	0.000	0.000	0.00
		max	3.095	3.025	2.955	26.166	-0.03
W-33	0.38	4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		1 g	5.159	12.967	20.776	4.882	0.04
		2 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		3 min	0.000	0.000	0.000	0.000	0.00
W-34	1.54	max	-0.206	0.518	1.243	0.195	0.09
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		1 g	70.722	81.310	91.898	125.217	0.03
		2 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-35	1.00	3 min	0.000	0.000	0.000	0.000	0.00
		max	6.064	6.849	7.635	10.548	0.03
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		1 g	119.238	117.418	115.598	117.418	0.00
		2 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		3 min	0.000	0.000	0.000	0.000	0.00
		max	10.140	10.126	10.113	10.126	0.00
		4 min	0.000	0.000	0.000	0.000	0.00

Position	Länge [m]	EW	----- Ft [kN/m] -----			Result. [kN]	e [m]
			Anfang	Mitte	Ende		
w-36	1.00	max	0.000	0.000	0.000	0.000	0.00
		1 g	91.402	91.454	91.505	91.454	0.00
		2 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		3 min	0.000	0.000	0.000	0.000	0.00
		max	8.645	8.630	8.615	8.630	0.00
w-37	0.38	4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		1 g	35.284	22.468	9.652	8.639	-0.04
		2 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		3 min	0.000	0.000	0.000	0.000	0.00
w-38	4.63	max	2.782	1.544	0.306	0.594	-0.05
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		1 g	11.478	18.102	24.727	83.820	0.28
		2 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
w-39	1.37	3 min	0.000	0.000	0.000	0.000	0.00
		max	0.961	1.452	1.942	6.722	0.26
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		1 g	23.829	17.961	12.093	24.607	-0.07
		2 min	0.000	0.000	0.000	0.000	0.00
w-40	5.54	max	0.000	0.000	0.000	0.000	0.00
		3 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		4 min	1.502	1.234	0.966	1.691	-0.05
		max	0.000	0.000	0.000	0.000	0.00
		1 g	43.298	20.646	-2.005	114.383	-1.01
w-41	0.90	2 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		3 min	0.000	0.000	0.000	0.000	0.00
		max	4.543	1.882	-0.779	10.428	-1.31
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
w-42	5.32	1 g	9.534	13.619	17.703	12.258	0.04
		2 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		3 min	0.000	0.000	0.000	0.000	0.00
		max	0.526	0.944	1.361	0.850	0.07
		4 min	0.000	0.000	0.000	0.000	0.00
w-43	0.35	max	0.000	0.000	0.000	0.000	0.00
		1 g	14.073	10.908	7.743	58.030	-0.26
		2 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		3 min	0.000	0.000	0.000	0.000	0.00
		max	1.144	0.835	0.526	4.442	-0.33
w-44	3.37	4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		1 g	31.030	29.652	28.273	10.378	0.00
		2 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		3 min	0.000	0.000	0.000	0.000	0.00
w-44	3.37	max	3.343	3.187	3.031	1.116	0.00
		4 min	0.000	0.000	0.000	0.000	0.00
w-44	3.37	max	0.000	0.000	0.000	0.000	0.00
		1 g	19.354	26.641	33.929	89.769	0.15
w-44	3.37	2 min	0.000	0.000	0.000	0.000	0.00

Position	Länge [m]	EW	----- Ft [kN/m] -----			Result. [kN]	e [m]
			Anfang	Mitte	Ende		
		max	0.000	0.000	0.000	0.000	0.00
		3 min	0.000	0.000	0.000	0.000	0.00
		max	2.070	2.819	3.567	9.498	0.15
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-45	5.88	1 g	26.025	32.553	39.082	191.575	0.20
		2 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		3 min	0.000	0.000	0.000	0.000	0.00
		max	2.787	3.493	4.200	20.557	0.20
		4 min	0.000	0.000	0.000	0.000	0.00
W-46	5.07	max	0.000	0.000	0.000	0.000	0.00
		1 g	55.248	35.649	16.050	180.741	-0.46
		2 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		3 min	0.000	0.000	0.000	0.000	0.00
		max	6.156	3.888	1.620	19.714	-0.49
W-47	5.12	4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		1 g	8.911	37.594	66.277	192.327	0.65
		2 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		3 min	0.000	0.000	0.000	0.000	0.00
W-48	2.21	max	1.008	4.112	7.216	21.036	0.64
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		1 g	64.651	66.732	68.813	147.477	0.01
		2 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-49	5.96	3 min	0.000	0.000	0.000	0.000	0.00
		max	6.836	7.225	7.614	15.967	0.02
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		1 g	59.867	57.278	54.690	341.611	-0.04
		2 min	0.000	0.000	0.000	0.000	0.00
W-50	1.86	max	0.000	0.000	0.000	0.000	0.00
		3 min	0.000	0.000	0.000	0.000	0.00
		max	6.751	6.434	6.117	38.371	-0.05
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		1 g	101.998	73.101	44.203	135.678	-0.12
W-51	0.96	2 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		3 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		4 min	0.000	0.000	0.000	0.000	0.00
		max	11.374	8.143	4.913	15.115	-0.12
W-52	0.91	max	0.000	0.000	0.000	0.000	0.00
		1 g	76.640	58.676	40.713	53.205	-0.05
		2 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		3 min	0.000	0.000	0.000	0.000	0.00
		max	8.440	6.444	4.448	5.843	-0.05

Position	Länge [m]	EW	----- Anfang	Ft [kN/m] Mitte	----- Ende	Result. [kN]	e [m]
	4	min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00

H.2 Konstrukce stropu

Vodorovnou nosnou konstrukci tvoří železobetonová deska tl. 250 mm, která je zesílena v místě sloupů stropními trámy o výšce 250 nebo 180 mm pod stropní deskou. Deska je na jedné straně krakorcovitě vyložena k obrysu 2.NP,

Svislé nosné konstrukce tvoří zděné obvodové a vnitřní stěny doplněné monolitickými sloupy o rozměrech 250 x 250 mm.

Přístup do vyšších podlaží je zajištěn vnitřním tříramenným schodištěm v jehož zrcadle je umístěna železobetonová šachta výtahu. Ramena schodiště jsou navržena jako dvakrát zalomená deska o tl. 150 mm s nadbetonovanými stupni.

Zatížení na stropní konstrukci

Zatížení stálé

Zatížení plošné	kN / m ²	normové	γ_u	výpočtové
Nášlapná vrstva	0,020*22	0,44	1,35	0,59
Cementový potěr	0,06*24	1,44	1,35	1,94
Kročejová izolace	0,03*1,5	0,05	1,35	0,06
Podhled	0,3	0,30	1,35	0,41
Celkem stálé		2,23	1,35	3,00

Zatížení stěnami

Zatížení plošné	kN / m ²	normové	γ_u	výpočtové
Zdivo 300 mm	0,317	0,32	1,35	0,43
Zdivo 250 mm	0,269	0,27	1,35	0,36
Zdivo 200 mm	0,203	0,20	1,35	0,27
Zdivo 150 mm	0,161	0,16	1,35	0,22
Zdivo 125 mm	0,142	0,14	1,35	0,19

Zatížení nahodilé

Zatížení plošné	kN / m ²	normové	γ_u	výpočtové
Nahodilé - užitné ordinace	2,00	2,00	1,50	3,00
Nahodilé - užitné chodba	5,00	5,00	1,50	7,50

Přehled strojního výstupu

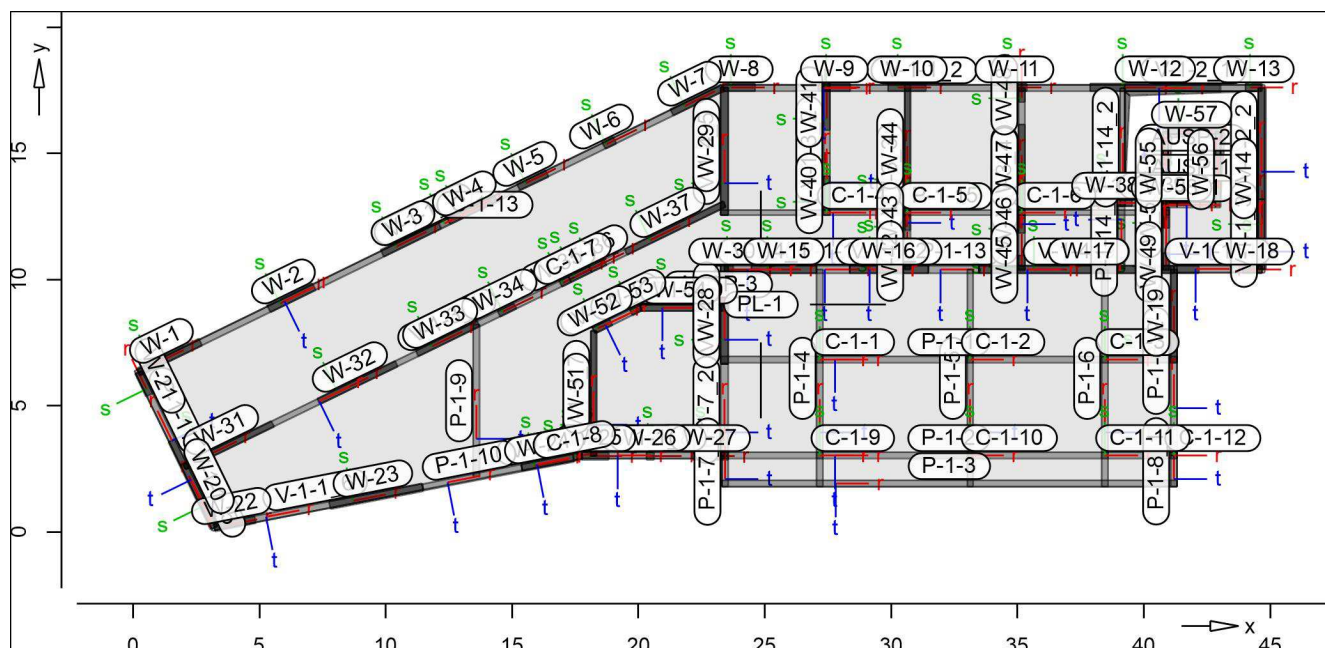
str	Popis.
74 - 74	Schéma konstrukce, materiál a souřadnice desky a otvorů
74 - 77	Materiál, rozměry a souřadnice průvlaků a věnců
77	Materiál, rozměry a souřadnice sloupů
77 - 80	Materiál, rozměry a souřadnice betonových a zděných stěn
81	Materiály – beton, betonářská ocel, zdivo
81 - 83	Konstrukční prvky – rozměry, plocha, objem
83	Vlastní hmotnost – schéma
84	Vlastní hmotnost – hodnoty
85	Ostatní zatížení – schéma
85 - 91	Ostatní zatížení – hodnoty
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98	Výpis typů zatížení
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102	Parametry vyztužení
102	Kombinace zatížení
103 - 107	Návrhová výztuž ve směru x při dolním povrchu
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113 - 115	Návrhová výztuž ve směru x při horním povrchu
116 - 119	Návrhová výztuž ve směru y při horním povrchu
120 - 123	Průvlaky a věnce - vlastnosti
123 - 158	Podélná a smyková výztuž průvlaků
159 - 160	Zatížení do sloupů
161 - 168	Zatížení do stěn

Pos.System

Positionsplan

System

Übersicht der Bauteil-Positionen



Plattenbereiche

Position	Material	Ges.	Art	h [cm]
PL-1	C 30/37	#	Q iso	25.00
iso : isotropes Material Q : Quarzit # : Querdehnzahl wurde für diese Position zu 0 gesetzt.				

Koordinaten

Position	Koordinaten in [m]			
PL-1	x	0.06	23.31	44.79
	y	6.38	17.72	17.72
	x	41.32	41.31	23.30
	y	10.28	1.78	1.78
	x	17.75	3.14	
	y	2.89	0.04	

Aussparungen

Position	Koordinaten in [m]			
AUSP-1	x	40.96	42.83	42.83
	y	13.06	13.06	15.76
AUSP-2	x	39.25	40.76	40.76
	y	13.15	13.15	15.96
	x	43.03	44.53	44.53
AUSP-3	y	13.17	13.17	17.46
	x	23.06	23.26	23.26
	y	9.04	9.04	10.54

Unterzüge

Position	Art	Material	Ges.	l _(r) [m]	b _(t) /h _(s) [cm]
P-1-1	UZ	C 30/37	Q	18.05	25.0/25.0
P-1-2	UZ	C 30/37	Q	18.04	25.0/25.0
P-1-3	UZ	C 30/37	Q	18.02	26.0/25.0
P-1-4... P-1-6	UZ	C 30/37	Q	8.61	25.0/25.0
P-1-7_1	UZ	C 30/37	Q	1.22	26.0/25.0
P-1-7_2	UZ	C 30/37	Q	3.63	30.0/25.0
P-1-8_1	UZ	C 30/37	Q	1.25	26.0/25.0

Position	Art	Material	Ges.	$l_{(r)}$ [m]	$b_{(t)}/h_{(s)}$ [cm]
P-1-8_2	UZ	C 30/37	Q	7.52	26.0/45.0
P-1-9	UZ	C 30/37	Q	6.03	25.0/18.0
P-1-10	UZ	C 30/37	Q	4.00	26.0/74.0
P-1-11	UZ	C 30/37	Q	4.03	26.0/68.0
P-1-12	UZ	C 30/37	Q	1.30	30.0/25.0
P-1-13	UZ	C 30/37	Q	2.00	30.0/25.0
P-1-14_1	UZ	C 30/37	Q	2.64	25.0/25.0
P-1-14_2	UZ	C 30/37	Q	4.69	20.0/139.0
P-1-15	UZ	C 30/37	Q	17.75	20.0/25.0
UZ-1	UZ	C 30/37	Q	1.50	20.0/154.0
V-1-1_1	UZ	C 30/37	Q	25.72	26.0/18.0
V-1-1_2	UZ	C 30/37	Q	15.91	26.0/18.0
V-1-1_3	UZ	C 30/37	Q	2.76	26.0/18.0
V-1-1_4	UZ	C 30/37	Q	3.50	26.0/18.0
V-1-1_5	UZ	C 30/37	Q	2.81	26.0/18.0
V-1-1_6	UZ	C 30/37	Q	8.41	26.0/18.0
V-1-1_7	UZ	C 30/37	Q	2.43	26.0/18.0
V-1-1_8	UZ	C 30/37	Q	5.64	26.0/18.0
V-1-2_1	UZ	C 30/37	Q	5.40	26.0/18.0
V-1-2_2	UZ	C 30/37	Q	4.42	26.0/18.0
V-1-3_1	UZ	C 30/37	Q	23.78	25.0/18.0
V-1-3_2	UZ	C 30/37	Q	5.22	25.0/18.0
V-1-3_3	UZ	C 30/37	Q	7.37	25.0/18.0
V-1-3_4	UZ	C 30/37	Q	7.22	25.0/18.0
V-1-3_5	UZ	C 30/37	Q	2.47	25.0/18.0
V-1-3_6	UZ	C 30/37	Q	2.82	25.0/18.0
V-1-3_7	UZ	C 30/37	Q	4.97	25.0/18.0
V-1-3_8	UZ	C 30/37	Q	2.07	25.0/18.0
V-1-3_9	UZ	C 30/37	Q	3.47	25.0/18.0
V-1-4_1	UZ	C 30/37	Q	3.65	30.0/18.0
V-1-4_2	UZ	C 30/37	Q	3.10	30.0/18.0
V-1-4_3	UZ	C 30/37	Q	7.72	30.0/18.0
V-1-4_4	UZ	C 30/37	Q	3.89	30.0/18.0
V-1-4_5	UZ	C 30/37	Q	5.07	30.0/18.0

UZ : Unterzug
Q : Quarzit

Koordinaten

Position	Koordinaten in [m]		
P-1-1	x	23.26	41.31
	y	6.83	6.83
P-1-2	x	23.27	41.31
	y	3.03	3.03
P-1-3	x	23.30	41.31
	y	1.91	1.91
P-1-4	x	27.18	27.18
	y	1.78	10.39
P-1-5	x	33.13	33.13
	y	1.78	10.39
P-1-6	x	38.45	38.45
	y	1.78	10.39
P-1-7_1	x	23.43	23.43
	y	1.78	3.00
P-1-7_2	x	23.41	23.41
	y	3.03	6.65
P-1-8_1	x	41.18	41.18
	y	1.78	3.03
P-1-8_2	x	41.18	41.18
	y	3.03	10.54
P-1-9	x	13.59	13.59
	y	2.19	8.21

Position	Koordinaten in [m]		
P-1-10	x	11.47	15.39
	y	1.77	2.54
P-1-11	x	2.00	0.23
	y	2.70	6.32
P-1-12	x	27.06	28.36
	y	10.39	10.39
P-1-13	x	31.46	33.46
	y	10.39	10.39
P-1-14_1	x	39.12	39.12
	y	13.03	10.39
P-1-14_2	x	39.16	39.16
	y	12.90	17.59
P-1-15	x	23.26	41.01
	y	12.64	12.64
UZ-1	x	41.33	42.83
	y	12.96	12.96
V-1-1_1	x	0.23	23.34
	y	6.32	17.59
V-1-1_2	x	23.34	39.25
	y	17.59	17.59
V-1-1_3	x	44.66	44.66
	y	10.41	13.17
V-1-1_4	x	41.18	44.68
	y	10.41	10.41
V-1-1_5	x	2.00	3.23
	y	2.70	0.17
V-1-1_6	x	3.21	11.46
	y	0.19	1.79
V-1-1_7	x	15.39	17.77
	y	2.56	3.02
V-1-1_8	x	17.77	23.41
	y	3.02	3.03
V-1-2_1	x	39.25	44.66
	y	17.59	17.59
V-1-2_2	x	44.66	44.66
	y	13.17	17.59
V-1-3_1	x	2.03	23.41
	y	2.58	13.00
V-1-3_2	x	27.45	27.45
	y	12.54	17.76
V-1-3_3	x	30.65	30.65
	y	10.39	17.76
V-1-3_4	x	35.17	35.17
	y	10.39	17.61
V-1-3_5	x	40.88	40.88
	y	10.39	12.86
V-1-3_6	x	40.75	37.93
	y	13.03	13.03
V-1-3_7	x	18.23	18.23
	y	3.00	7.97
V-1-3_8	x	18.23	20.09
	y	7.97	8.88
V-1-3_9	x	20.09	23.56
	y	8.88	8.88
V-1-4_1	x	23.41	27.06
	y	10.39	10.39
V-1-4_2	x	28.36	31.46
	y	10.39	10.39
V-1-4_3	x	33.46	41.18
	y	10.39	10.39
V-1-4_4	x	23.41	23.41

Position	Koordinaten in [m]		
	y	6.65	10.54
v-1-4_5	x	23.41	23.41
	y	12.54	17.61

Auflager

Übersicht der Auflager-Positionen

Stützenlager

Stahlbeton Position	Material	Ges.	Länge [m]	$b_{(r)}/h_{(s)}$ [cm]
C-1-1..C-1-3	C 30/37	Q	3.94	25.0/25.0
C-1-4..C-1-6	C 30/37	Q	3.94	25.0/20.0
C-1-9..C-1-12	C 30/37	Q	3.94	25.0/25.0
C-1-13	C 30/37	Q	4.00	40.0/26.0

Q : Quarzit

Elastizitäten

	$K_{T, t}$ [kN/m]		$K_{R, r}$ [kNm/rad]		$K_{R, s}$ [kNm/rad]
C-1-1..C-1-3	+/- 5.23E+005	+/-	8.18E+003	+/-	8.18E+003
C-1-4..C-1-6	+/- 4.19E+005	+/-	4.19E+003	+/-	6.54E+003
C-1-9..C-1-12	+/- 5.23E+005	+/-	8.18E+003	+/-	8.18E+003
C-1-13	+/- 8.58E+005	+/-	1.45E+004	+/-	3.43E+004

Koordinaten

Position	X [m]	Y [m]	α [°]
C-1-1	27.18	6.83	0.0
C-1-2	33.13	6.83	0.0
C-1-3	38.45	6.83	0.0
C-1-4	27.45	12.64	0.0
C-1-5	30.65	12.64	0.0
C-1-6	35.17	12.64	0.0
C-1-9	27.18	3.03	0.0
C-1-10	33.13	3.03	0.0
C-1-11	38.45	3.03	0.0
C-1-12	41.18	3.03	0.0
C-1-13	12.32	12.22	26.0

Wandlager

Stahlbeton Position	Material	Länge [m]	Höhe [m]	Dicke [cm]
C-1-7	C 30/37	0.90	4.01	25.0
C-1-8	C 30/37	0.35	4.01	25.0
W-55	C 30/37	2.90	4.00	20.0
W-56	C 30/37	3.00	4.00	20.0
W-57	C 30/37	2.07	4.00	20.0
W-58	C 30/37	0.47	4.00	20.0

Mauerwerk Position	Material	Länge [m]	Höhe [m]	Dicke [cm]
W-1	HLZW 10 III	2.74	4.00	30.0
W-2	HLZW 10 III	2.00	4.00	30.0
W-3	HLZW 10 III	2.53	4.00	30.0
W-4	HLZW 10 III	2.07	4.00	30.0
W-5	HLZW 10 III	1.25	4.00	30.0
W-6	HLZW 10 III	0.50	4.00	30.0
W-7	HLZW 10 III	2.25	4.00	30.0
W-8	HLZW 10 III	1.28	4.00	30.0
W-9	HLZW 10 III	1.25	4.00	30.0
W-10	HLZW 10 III	1.50	4.00	30.0
W-11	HLZW 10 III	1.00	4.00	30.0
W-12	HLZW 10 III	5.15	4.00	30.0

Mauerwerk Position	Material	Länge [m]	Höhe [m]	Dicke [cm]
W-13	HLZW 10 III	0.65	4.00	30.0
W-14	HLZW 10 III	7.22	4.00	30.0
W-15	HLZW 10 III	2.60	4.00	30.0
W-16	HLZW 10 III	3.10	4.00	30.0
W-17	HLZW 10 III	8.70	4.00	30.0
W-18	HLZW 10 III	0.75	4.00	30.0
W-19	HLZW 10 III	3.68	4.00	25.0
W-20	HLZW 10 III	3.85	4.00	30.0
W-21	HLZW 10 III	1.00	4.00	30.0
W-22	HLZW 10 III	1.66	4.00	30.0
W-23	HLZW 10 III	3.75	4.00	30.0
W-24	HLZW 10 III	2.07	4.00	30.0
W-25	HLZW 10 III	1.05	4.00	30.0
W-26	HLZW 10 III	0.30	4.00	30.0
W-27	HLZW 10 III	1.44	4.00	30.0
W-28	HLZW 10 III	3.89	4.00	30.0
W-29	HLZW 10 III	5.07	4.00	30.0
W-30	HLZW 10 III	0.35	4.00	30.0
W-31	HLZW 10 III	3.89	4.00	25.0
W-32	HLZW 10 III	3.45	4.00	25.0
W-33	HLZW 10 III	2.70	4.00	25.0
W-34	HLZW 10 III	0.71	4.00	25.0
W-35	HLZW 10 III	0.42	4.00	25.0
W-36	HLZW 10 III	0.65	4.00	25.0
W-37	HLZW 10 III	4.35	4.00	25.0
W-38	HLZW 10 III	1.64	4.00	25.0
W-39	HLZW 10 III	0.32	4.00	25.0
W-40	HLZW 10 III	1.34	4.01	25.0
W-41	HLZW 10 III	1.85	4.01	25.0
W-42	HLZW 10 III	0.68	4.00	25.0
W-43	HLZW 10 III	0.59	4.00	25.0
W-44	HLZW 10 III	4.87	4.00	25.0
W-45	HLZW 10 III	0.61	4.00	25.0
W-46	HLZW 10 III	0.71	4.00	25.0
W-47	HLZW 10 III	3.41	4.00	25.0
W-48	HLZW 10 III	0.58	4.00	25.0
W-49	HLZW 10 III	0.70	4.00	25.0
W-50	HLZW 10 III	0.83	4.00	25.0
W-51	HLZW 10 III	4.97	2.83	25.0
W-52	HLZW 10 III	0.76	2.83	25.0
W-53	HLZW 10 III	0.42	2.83	25.0
W-54	HLZW 10 III	3.32	2.83	25.0

Elastizitäten

C-1-7, C-1-8
W-1..W-18
W-19
W-20..W-30
W-31..W-39
W-40, W-41
W-42..W-50
W-51..W-54
W-55..W-58

	$K_{T, t}$ [kN/m ²]		$K_{R, r}$ [kNm/rad/m]		$K_{R, s}$ [kNm/rad/m]
+/ -	2.06E+006	+/ -	3.21E+004	+/ -	5.14E+005
+/ -	3.31E+005		frei		frei
+/ -	2.76E+005		frei		frei
+/ -	3.31E+005		frei		frei
+/ -	2.76E+005		frei		frei
+/ -	2.75E+005		frei		frei
+/ -	2.76E+005		frei		frei
+/ -	3.90E+005		frei		frei
+/ -	1.65E+006	+/ -	1.65E+004	+/ -	4.13E+005

Koordinaten

Position	Koordinaten in [m]	
C-1-7	x	17.29 18.10
	y	10.01 10.41
C-1-8	x	17.42 17.77

Position	Koordinaten in [m]		
	y	2.96	3.02
W-1	x	0.20	2.67
	y	6.33	7.53
W-2	x	5.36	7.16
	y	8.84	9.72
W-3	x	9.86	12.13
	y	11.04	12.15
W-4	x	12.49	14.35
	y	12.32	13.23
W-5	x	15.25	16.37
	y	13.67	14.21
W-6	x	18.62	19.07
	y	15.31	15.53
W-7	x	21.32	23.34
	y	16.63	17.61
W-8	x	23.34	24.63
	y	17.61	17.61
W-9	x	27.13	28.38
	y	17.61	17.61
W-10	x	29.88	31.38
	y	17.61	17.61
W-11	x	34.38	35.38
	y	17.61	17.61
W-12	x	37.88	43.03
	y	17.61	17.61
W-13	x	44.03	44.68
	y	17.61	17.61
W-14	x	44.68	44.68
	y	10.39	17.61
W-15	x	24.46	27.06
	y	10.39	10.39
W-16	x	28.36	31.46
	y	10.39	10.39
W-17	x	33.46	42.17
	y	10.39	10.39
W-18	x	43.93	44.68
	y	10.39	10.39
W-19	x	41.18	41.18
	y	6.71	10.39
W-20	x	3.21	1.52
	y	0.17	3.63
W-21	x	0.64	0.20
	y	5.43	6.33
W-22	x	3.21	4.84
	y	0.17	0.49
W-23	x	7.79	11.47
	y	1.06	1.77
W-24	x	15.39	17.43
	y	2.54	2.93
W-25	x	17.77	18.82
	y	3.00	3.00
W-26	x	20.32	20.62
	y	3.00	3.00
W-27	x	22.12	23.56
	y	3.00	3.00
W-28	x	23.41	23.41
	y	6.65	10.54
W-29	x	23.41	23.41
	y	12.54	17.61
W-30	x	23.41	23.76
	y	10.39	10.39

Position	Koordinaten in [m]		
W-31	x	2.03	5.53
	y	2.58	4.28
W-32	x	7.33	10.43
	y	5.16	6.67
W-33	x	11.24	13.67
	y	7.07	8.25
W-34	x	14.48	15.12
	y	8.64	8.96
W-35	x	16.91	17.29
	y	9.83	10.01
W-36	x	18.10	18.68
	y	10.41	10.70
W-37	x	19.49	23.41
	y	11.09	13.00
W-38	x	37.91	39.56
	y	13.03	13.03
W-39	x	40.44	40.76
	y	13.03	13.03
W-40	x	27.45	27.45
	y	12.74	14.08
W-41	x	27.45	27.45
	y	15.91	17.76
W-42	x	30.65	30.65
	y	10.39	11.07
W-43	x	30.65	30.65
	y	11.95	12.54
W-44	x	30.65	30.65
	y	12.74	17.61
W-45	x	35.17	35.17
	y	10.35	10.95
W-46	x	35.17	35.17
	y	11.83	12.54
W-47	x	35.17	35.18
	y	12.74	16.15
W-48	x	35.17	35.17
	y	17.03	17.61
W-49	x	40.88	40.88
	y	10.35	11.05
W-50	x	40.88	40.88
	y	12.03	12.86
W-51	x	18.23	18.23
	y	3.00	7.97
W-52	x	18.23	18.92
	y	7.97	8.31
W-53	x	19.71	20.09
	y	8.69	8.88
W-54	x	20.09	23.41
	y	8.88	8.88
W-55	x	40.86	40.86
	y	12.96	15.86
W-56	x	42.93	42.93
	y	12.86	15.86
W-57	x	40.86	42.93
	y	15.86	15.86
W-58	x	40.86	41.33
	y	12.96	12.96

Mat./Querschnitt

Material- und Querschnittswerte

Stahlbeton
DIN EN 1992-1-1

Position	Material	μ	γ [kN/m ³]	G-Modul E-Modul [N/mm ²]
P-1-1..P-1-6, P-1-7_1, P-1-7_2, P-1-8_1, P-1-8_2, P-1-9..P-1-13, P-1-14_1, P-1-14_2, P-1-15, UZ-1, V-1-1_1..V-1-1_8, V-1-2_1, V-1-2_2, V-1-3_1..V-1-3_9, V-1-4_1..V-1-4_5, C-1-1..C-1-6, C-1-9..C-1-13, C-1-7, C-1-8, W-55..W-58	C 30/37	0.20	25.00	13750
	Quarzit			33000
PL-1	C 30/37	0.00	25.00	16500
	Quarzit			33000

Betonstahl
DIN EN 1992-1-1

Material	μ	γ [kN/m ³]	G-Modul [N/mm ²]	E-Modul [N/mm ²]
B 500MA	0.30	78.50	77000	200000
B 500SA	0.30	78.50	77000	200000

Mauerwerk
DIN EN 1996-1-1

Position	Material	ρ [kg/dm ³]	γ [kN/m ³]	E-Modul [N/mm ²]
W-1..W-50	HLZW 10 III	2.83	24.00	4410
W-51..W-54	HLZW 10 III	2083.00	24.00	4410

Auswertung

Auswertung des Modells

Stahlbeton-Flächen

Position	d [cm]	A [m ²]	V [m ³]
PL-1	25.0	523.93	130.98

Stahlbeton-Unterzug

Position	$b_{(t)}/h_{(s)}$ [cm]	A [m ²]	V [m ³]
P-1-1	25.0/25.0	18.05	1.13
P-1-2	25.0/25.0	18.04	1.13
P-1-3	26.0/25.0	18.38	1.17
P-1-4..P-1-6	25.0/25.0	8.61	0.54
P-1-7_1	26.0/25.0	1.24	0.08
P-1-7_2	30.0/25.0	3.99	0.27
P-1-8_1	26.0/25.0	1.27	0.08
P-1-8_2	26.0/45.0	10.67	0.88
P-1-9	25.0/18.0	5.18	0.27
P-1-10	26.0/74.0	8.00	0.77
P-1-11	26.0/68.0	7.57	0.71
P-1-12	30.0/25.0	1.44	0.10
P-1-13	30.0/25.0	2.20	0.15
P-1-14_1	25.0/25.0	2.64	0.16
P-1-14_2	20.0/139.0	14.91	1.30
P-1-15	20.0/25.0	15.98	0.89
UZ-1	20.0/154.0	5.22	0.46
V-1-1_1	26.0/18.0	22.63	1.20
V-1-1_2	26.0/18.0	14.00	0.74
V-1-1_3	26.0/18.0	2.43	0.13
V-1-1_4	26.0/18.0	3.08	0.16
V-1-1_5	26.0/18.0	2.48	0.13
V-1-1_6	26.0/18.0	7.40	0.39
V-1-1_7	26.0/18.0	2.13	0.11
V-1-1_8	26.0/18.0	4.96	0.26
V-1-2_1	26.0/18.0	4.76	0.25
V-1-2_2	26.0/18.0	3.89	0.21
V-1-3_1	25.0/18.0	20.45	1.07
V-1-3_2	25.0/18.0	4.49	0.23

Position	$b_{(t)}/h_{(s)}$ [cm]	A [m ²]	V [m ³]
V-1-3_3	25.0/18.0	6.34	0.33
V-1-3_4	25.0/18.0	6.21	0.32
V-1-3_5	25.0/18.0	2.12	0.11
V-1-3_6	25.0/18.0	2.43	0.13
V-1-3_7	25.0/18.0	4.28	0.22
V-1-3_8	25.0/18.0	1.78	0.09
V-1-3_9	25.0/18.0	2.98	0.16
V-1-4_1	30.0/18.0	3.50	0.20
V-1-4_2	30.0/18.0	2.98	0.17
V-1-4_3	30.0/18.0	7.41	0.42
V-1-4_4	30.0/18.0	3.73	0.21
V-1-4_5	30.0/18.0	4.87	0.27

Stützenlager

Stahlbeton Position	$b_{(r)}/h_{(s)}$ [cm]	A [m ²]	V [m ³]
C-1-1..C-1-3	25.0/25.0	3.94	0.25
C-1-4..C-1-6	25.0/20.0	3.55	0.20
C-1-9..C-1-12	25.0/25.0	3.94	0.25
C-1-13	40.0/26.0	5.28	0.42

Wandlager

Stahlbeton Position	b/h [cm]	A [m ²]	V [m ³]
C-1-7	25.0/401.0	7.67	0.90
C-1-8	25.0/401.0	2.98	0.35
W-55	20.0/400.0	24.36	2.32
W-56	20.0/400.0	25.20	2.40
W-57	20.0/400.0	17.39	1.66
W-58	20.0/400.0	3.95	0.38

Mauerwerk Position	b/h [cm]	A [m ²]	V [m ³]
W-1	30.0/400.0	23.59	3.29
W-2	30.0/400.0	17.20	2.40
W-3	30.0/400.0	21.78	3.04
W-4	30.0/400.0	17.77	2.48
W-5	30.0/400.0	10.76	1.50
W-6	30.0/400.0	4.30	0.60
W-7	30.0/400.0	19.37	2.70
W-8	30.0/400.0	11.04	1.54
W-9	30.0/400.0	10.75	1.50
W-10	30.0/400.0	12.90	1.80
W-11	30.0/400.0	8.60	1.20
W-12	30.0/400.0	44.29	6.18
W-13	30.0/400.0	5.59	0.78
W-14	30.0/400.0	62.09	8.66
W-15	30.0/400.0	22.36	3.12
W-16	30.0/400.0	26.69	3.72
W-17	30.0/400.0	74.84	10.44
W-18	30.0/400.0	6.45	0.90
W-19	25.0/400.0	31.30	3.68
W-20	30.0/400.0	33.11	4.62
W-21	30.0/400.0	8.62	1.20
W-22	30.0/400.0	14.30	2.00
W-23	30.0/400.0	32.25	4.50
W-24	30.0/400.0	17.82	2.49
W-25	30.0/400.0	9.00	1.26
W-26	30.0/400.0	2.58	0.36

Mauerwerk Position

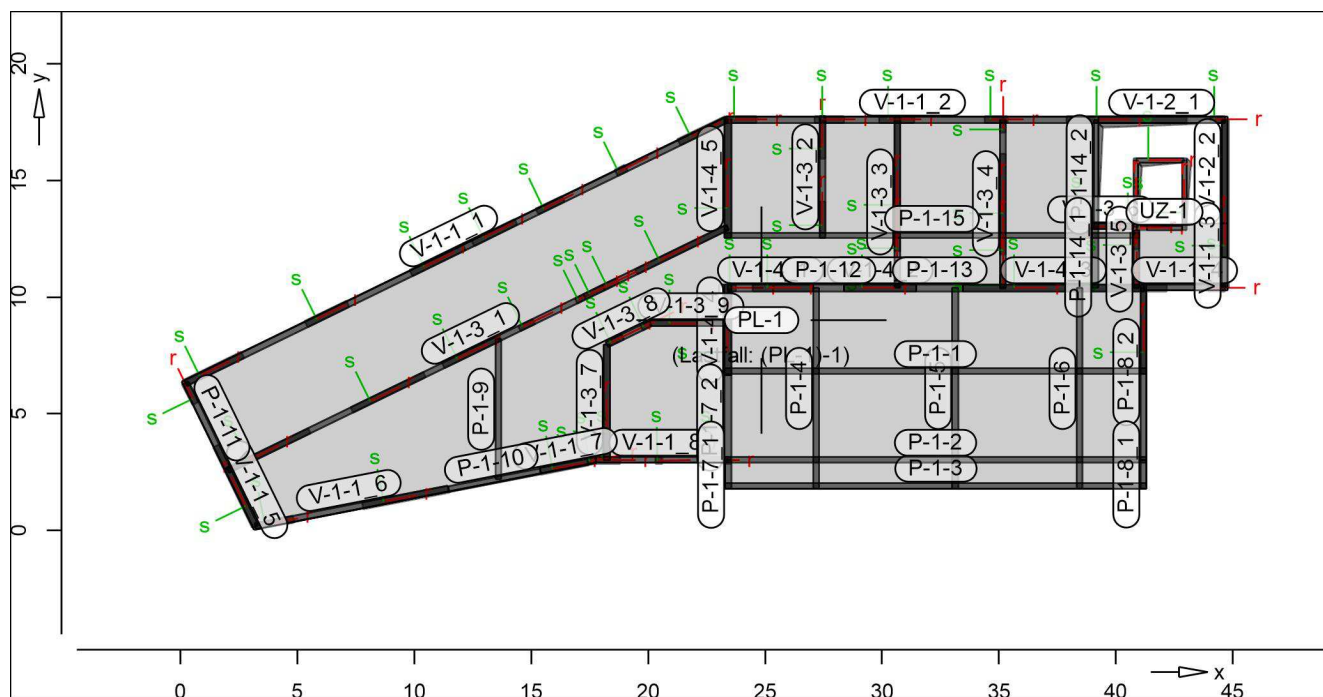
	b/h [cm]	A [m ²]	V [m ³]
W-27	30.0/400.0	12.38	1.73
W-28	30.0/400.0	33.45	4.67
W-29	30.0/400.0	43.60	6.08
W-30	30.0/400.0	3.01	0.42
W-31	25.0/400.0	33.09	3.89
W-32	25.0/400.0	29.30	3.45
W-33	25.0/400.0	22.95	2.70
W-34	25.0/400.0	6.05	0.71
W-35	25.0/400.0	3.54	0.42
W-36	25.0/400.0	5.55	0.65
W-37	25.0/400.0	37.01	4.35
W-38	25.0/400.0	13.98	1.64
W-39	25.0/400.0	2.72	0.32
W-40	25.0/401.0	11.41	1.34
W-41	25.0/401.0	15.78	1.86
W-42	25.0/400.0	5.78	0.68
W-43	25.0/400.0	5.02	0.59
W-44	25.0/400.0	41.39	4.87
W-45	25.0/400.0	5.15	0.61
W-46	25.0/400.0	6.03	0.71
W-47	25.0/400.0	29.00	3.41
W-48	25.0/400.0	4.92	0.58
W-49	25.0/400.0	5.98	0.70
W-50	25.0/400.0	7.05	0.83
W-51	25.0/283.0	30.63	3.52
W-52	25.0/283.0	4.69	0.54
W-53	25.0/283.0	2.62	0.30
W-54	25.0/283.0	20.43	2.35

Belastungen

Belastungen im Modell

Positionslasten

Positionsbezogene Flächen- und Linienlasten



Flächenpositionen

Position	Lastfall	p [kN/m ²]
PL-1	LF-1	Eg -6.25
	LF-1	-2.23
	(PL-1)-1	-2.00

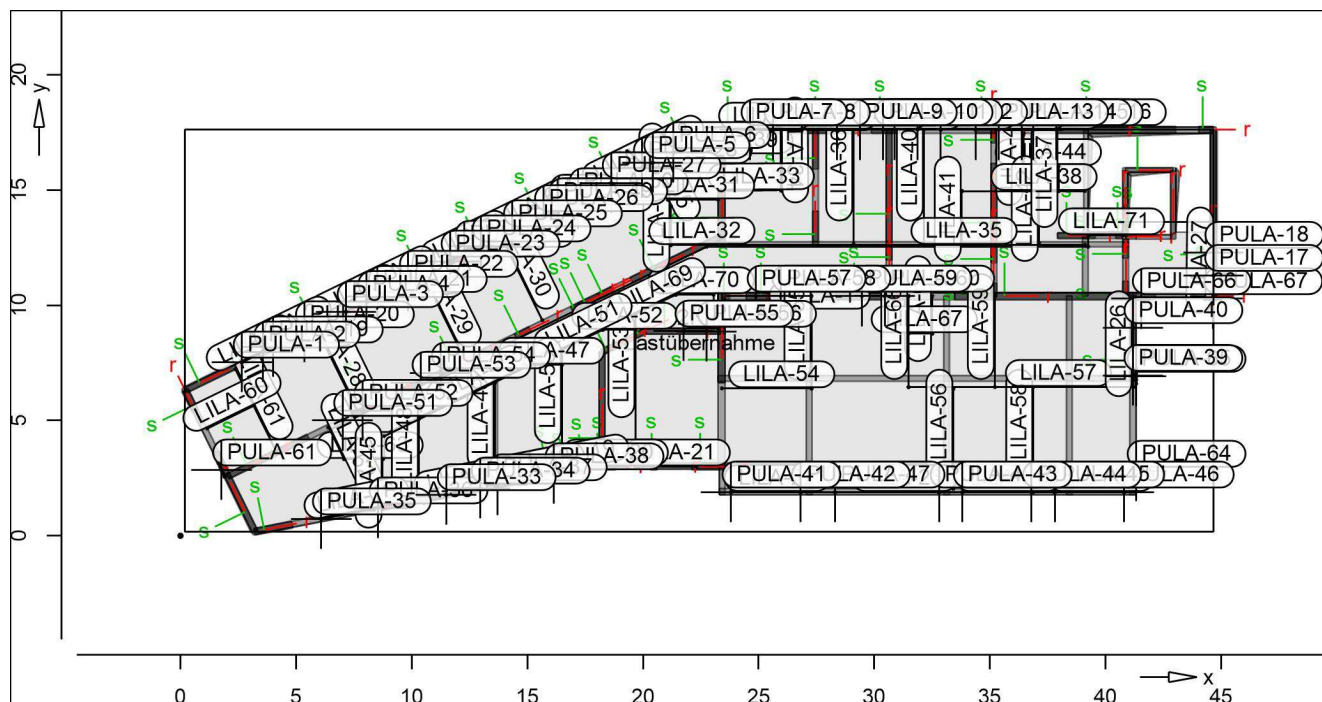
Eg : Eigengewicht

Streckenpositionen

Position	Lastfall	p [kN/m]
P-1-1, P-1-2		
	LF-1	Eg -1.56
P-1-3	LF-1	Eg -1.63
P-1-4..P-1-6		
	LF-1	Eg -1.56
P-1-7_1	LF-1	Eg -1.63
P-1-7_2	LF-1	Eg -1.88
P-1-8_1	LF-1	Eg -1.63
P-1-8_2	LF-1	Eg -2.93
P-1-9	LF-1	Eg -1.13
P-1-10	LF-1	Eg -4.81
P-1-11	LF-1	Eg -4.42
P-1-12, P-1-13		
	LF-1	Eg -1.88
P-1-14_1	LF-1	Eg -1.56
P-1-14_2	LF-1	Eg -6.95
P-1-15	LF-1	Eg -1.25
UZ-1	LF-1	Eg -7.70
V-1-1_1..V-1-1_8, V-1-2_1, V-1-2_2		
	LF-1	Eg -1.17
V-1-3_1..V-1-3_9		
	LF-1	Eg -1.13
V-1-4_1..V-1-4_5		
	LF-1	Eg -1.35

Eg : Eigengewicht

Lastplan



Punktlasten beliebig

Position	Lastfall	Art	F/M [kN]/[kNm]
PULA-1..PULA-18	<i>Nadprazi</i> $\alpha = 0.0^\circ$		
	LF-1	Pz'	-1.41
PULA-19..PULA-34	<i>Nadprazi</i> $\alpha = 0.0^\circ$		
	LF-1	Pz'	-2.11
PULA-35..PULA-40	<i>Nadprazi</i> $\alpha = 0.0^\circ$		
	LF-1	Pz'	-3.51
PULA-41..PULA-46	<i>Nadprazi</i> $\alpha = 0.0^\circ$		
	LF-1	Pz'	-4.22
PULA-47, PULA-48	<i>Nadprazi</i> $\alpha = 0.0^\circ$		
	LF-1	Pz'	-6.32
PULA-49, PULA-50	<i>Nadprazi</i> $\alpha = 0.0^\circ$		
	LF-1	Pz'	-2.33
PULA-51..PULA-56	$\alpha = 0.0^\circ$		
	LF-1	Pz'	-1.94
PULA-57, PULA-58	<i>Nadprazi</i> $\alpha = 0.0^\circ$		
	LF-1	Pz'	-2.52
PULA-59, PULA-60			

beliebig

Position	Lastfall	Art	F/M [kN]/[kNm]
	<i>Nadprazi</i> $\alpha = 0.0^\circ$		
PULA-61	LF-1	Pz'	-2.28
	OK $\alpha = 116.0^\circ$		
	LF-1	Pz'	1.68
	LF-1	Mx'	0.46
	LF-2	Pz'	-3.71
	LF-2	Mx'	-1.00
PULA-62	OK $\alpha = 26.0^\circ$		
	LF-1	Pz'	-1.81
	LF-1	Mx'	-0.36
	LF-2	Pz'	-11.01
	LF-2	Mx'	-2.20
PULA-63	$\alpha = 26.0^\circ$		
	LF-1	Pz'	-1.64
	LF-1	Mx'	-0.33
	LF-2	Pz'	-10.71
	LF-2	Mx'	-2.14
PULA-64	OK $\alpha = 0.0^\circ$		
	LF-1	Pz'	5.96
	LF-1	My'	-1.50
	LF-2	Pz'	-12.37
	LF-2	My'	3.09
PULA-65	OK $\alpha = 0.0^\circ$		
	LF-1	Pz'	6.53
	LF-1	My'	-1.64
	LF-2	Pz'	-12.97
	LF-2	My'	3.23
PULA-66	OK $\alpha = 0.0^\circ$		
	LF-1	Pz'	2.75
	LF-1	Mx'	-0.97
	LF-2	Pz'	-5.70
	LF-2	Mx'	1.83
PULA-67	OK $\alpha = 0.0^\circ$		
	LF-1	Pz'	3.22
	LF-1	Mx'	-0.97
	LF-2	Pz'	-6.46
	LF-2	Mx'	1.81

Koordinaten

Position	X [m]	Y [m]
PULA-1	2.66	7.53
PULA-2	3.56	7.97
PULA-3	7.16	9.72
PULA-4	8.06	10.16
PULA-5	20.42	16.19
PULA-6	21.31	16.62
PULA-7	24.62	17.61
PULA-8	25.62	17.60
PULA-9	29.38	17.61
PULA-10	30.38	17.61
PULA-11	30.87	17.61
PULA-12	31.87	17.61
PULA-13	35.38	17.61

Position	X [m]	Y [m]
PULA-14	36.37	17.61
PULA-15	36.88	17.61
PULA-16	37.87	17.61
PULA-17	44.67	11.29
PULA-18	44.68	12.29
PULA-19	4.01	8.19
PULA-20	5.36	8.85
PULA-21	8.51	10.38
PULA-22	9.85	11.04
PULA-23	11.65	11.91
PULA-24	13.00	12.57
PULA-25	14.35	13.23
PULA-26	15.70	13.89
PULA-27	18.62	15.31
PULA-28	19.97	15.97
PULA-29	26.87	17.61
PULA-30	28.38	17.59
PULA-31	32.88	17.61
PULA-32	34.38	17.61
PULA-33	11.49	1.78
PULA-34	12.96	2.06
PULA-35	6.09	0.73
PULA-36	8.54	1.21
PULA-37	13.70	2.21
PULA-38	16.15	2.68
PULA-39	41.18	6.95
PULA-40	41.18	9.02
PULA-41	23.80	1.89
PULA-42	26.81	1.89
PULA-43	33.80	1.89
PULA-44	36.80	1.89
PULA-45	37.80	1.89
PULA-46	40.81	1.89
PULA-47	28.30	1.89
PULA-48	32.80	1.89
PULA-49	16.31	14.18
PULA-50	17.20	14.62
PULA-51	7.01	5.00
PULA-52	7.89	5.43
PULA-53	10.40	6.66
PULA-54	11.24	7.07
PULA-55	21.77	8.88
PULA-56	22.75	8.87
PULA-57	24.89	10.39
PULA-58	25.96	10.39
PULA-59	29.47	10.39
PULA-60	30.45	10.39
PULA-61	1.78	2.85
PULA-62	16.37	14.34
PULA-63	12.27	12.33
PULA-64	41.32	2.79
PULA-65	41.32	6.91
PULA-66	41.54	10.28
PULA-67	44.63	10.28

Linienlasten
Total

Position	Lastfall	Art	F_A/M_A [kN/m] / [kNm/m]	F_E/M_E
LILA-1..LILA-26	<i>Fasada</i>			
	LF-1	pt	-3.26	-3.26

lokal

Position	Lastfall	Art	F_A/M_A [kN/m] / [kNm/m]	F_E/M_E
LILA-27	<i>Fasada</i>			
	LF-1	pt	-1.32	-1.32
LILA-28..LILA-36	<i>Pricky 150 mm</i>			
	LF-1	pt	-5.75	-5.75
LILA-37	LF-1	pt	-7.25	-7.25
LILA-38, LILA-39	<i>Pricky 200 mm</i>			
	LF-1	pt	-7.25	-7.25
LILA-40..LILA-59	<i>Pricky 150 mm</i>			
	LF-1	pt	-5.75	-5.75
LILA-60..LILA-68	<i>Pricky 125 mm</i>			
	LF-1	pt	-5.07	-5.07
LILA-69, LILA-70	LF-1	pt	-5.75	-5.75
LILA-71	<i>Schodiste</i>			
	LF-1	pt	-13.60	-13.60
	LF-2	pt	-10.75	-10.75

Koordinaten

Position	Koordinaten in [m]		
LILA-1	x	2.67	3.56
	y	7.53	7.97
LILA-2	x	4.02	5.36
	y	8.19	8.85
LILA-3	x	7.16	8.06
	y	9.72	10.16
LILA-4	x	8.51	9.85
	y	10.38	11.03
LILA-5	x	11.66	13.00
	y	11.91	12.57
LILA-6	x	14.35	15.70
	y	13.23	13.89
LILA-7	x	18.62	19.97
	y	15.31	15.97
LILA-8	x	20.42	21.32
	y	16.19	16.63
LILA-9	x	24.63	25.63
	y	17.61	17.61
LILA-10	x	26.88	28.38
	y	17.61	17.61
LILA-11	x	29.38	30.38
	y	17.61	17.61
LILA-12	x	30.88	31.87
	y	17.61	17.61
LILA-13	x	32.88	34.38
	y	17.61	17.61
LILA-14	x	35.38	36.37
	y	17.61	17.61
LILA-15	x	36.88	37.88
	y	17.61	17.61
LILA-16	x	6.09	8.54
	y	0.73	1.21
LILA-17	x	11.49	12.96
	y	1.78	2.06
LILA-18	x	13.70	16.15
	y	2.21	2.68
LILA-19	x	16.88	17.43
	y	2.83	2.93

Position	Koordinaten in [m]		
LILA-20	x	17.77	19.32
	y	3.00	3.00
LILA-21	x	19.81	22.31
	y	3.00	3.00
LILA-22	x	23.81	26.80
	y	1.89	1.89
LILA-23	x	28.30	32.80
	y	1.89	1.89
LILA-24	x	33.81	36.81
	y	1.89	1.89
LILA-25	x	37.81	40.80
	y	1.89	1.89
LILA-26	x	41.18	41.18
	y	6.95	9.02
LILA-27	x	44.68	44.69
	y	11.29	12.29
LILA-28	x	7.63	5.92
	y	5.45	8.95
LILA-29	x	12.27	10.56
	y	7.70	11.21
LILA-30	x	15.64	13.93
	y	9.35	12.85
LILA-31	x	21.08	23.25
	y	14.59	14.59
LILA-32	x	21.19	23.22
	y	12.61	12.62
LILA-33	x	23.41	25.97
	y	14.97	14.98
LILA-34	x	25.97	25.95
	y	14.98	17.61
LILA-35	x	23.41	39.12
	y	12.62	12.62
LILA-36	x	29.10	29.10
	y	12.64	17.61
LILA-37	x	37.97	37.97
	y	14.95	16.03
LILA-38	x	33.79	39.11
	y	14.95	14.95
LILA-39	x	23.41	24.58
	y	16.54	16.54
LILA-40	x	32.15	32.15
	y	12.62	17.61
LILA-41	x	33.79	33.79
	y	12.62	14.95
LILA-42	x	37.12	37.12
	y	12.69	14.95
LILA-43	x	36.45	36.45
	y	14.95	17.46
LILA-44	x	36.45	38.06
	y	16.03	16.03
LILA-45	x	8.75	8.75
	y	1.25	3.32
LILA-46	x	8.81	15.15
	y	4.32	7.41
LILA-47	x	15.15	16.50
	y	7.41	7.41
LILA-48	x	10.32	10.32
	y	1.55	5.06
LILA-49	x	13.59	13.59
	y	2.19	6.65
LILA-50	x	16.50	16.50

Position	Koordinaten in [m]		
	y	2.75	8.07
LILA-51	x	16.50	18.26
	y	8.07	8.93
LILA-52	x	18.26	19.68
	y	8.93	8.93
LILA-53	x	19.68	19.68
	y	3.00	9.63
LILA-54	x	23.41	27.29
	y	6.39	6.39
LILA-55	x	27.29	27.29
	y	6.39	10.39
LILA-56	x	33.43	33.43
	y	2.04	6.37
LILA-57	x	31.48	41.21
	y	6.45	6.45
LILA-58	x	36.88	36.88
	y	1.89	6.45
LILA-59	x	35.22	35.22
	y	6.45	10.39
LILA-60	x	1.16	3.17
	y	4.66	5.65
LILA-61	x	4.16	2.39
	y	3.61	7.23
LILA-62	x	6.40	7.07
	y	4.71	3.32
LILA-63	x	7.07	8.75
	y	3.32	3.32
LILA-64	x	21.19	21.19
	y	12.61	14.30
LILA-65	x	21.19	20.30
	y	14.30	16.13
LILA-66	x	31.48	31.48
	y	6.45	10.39
LILA-67	x	31.48	32.50
	y	8.78	8.78
LILA-68	x	32.50	32.50
	y	8.78	10.39
LILA-69	x	19.68	21.43
	y	9.63	10.47
LILA-70	x	21.43	23.06
	y	10.47	10.47
LILA-71	x	39.26	40.75
	y	13.03	13.03

Flächenlasten
 Lokal, t-Richt.

Position	Lastfall	p [kN/m ²]
FLLA-1	LF-2	-3.00

Koordinaten

Position	Koordinaten in [m]			
FLLA-1	x	7.12	6.52	22.75
	y	3.40	4.62	12.54
	x	39.25	40.75	40.75
	y	13.17	13.17	13.61
	x	44.52	23.25	23.25
	y	10.54	10.54	9.00
	x	16.42	16.42	15.13
	y	8.12	7.49	7.49
	x	8.81		
	y	3.40		

Lastbilder

Position	Lastfall	winke]	Datei
		[°]	
STLA-1		0.00	2NP.ueb

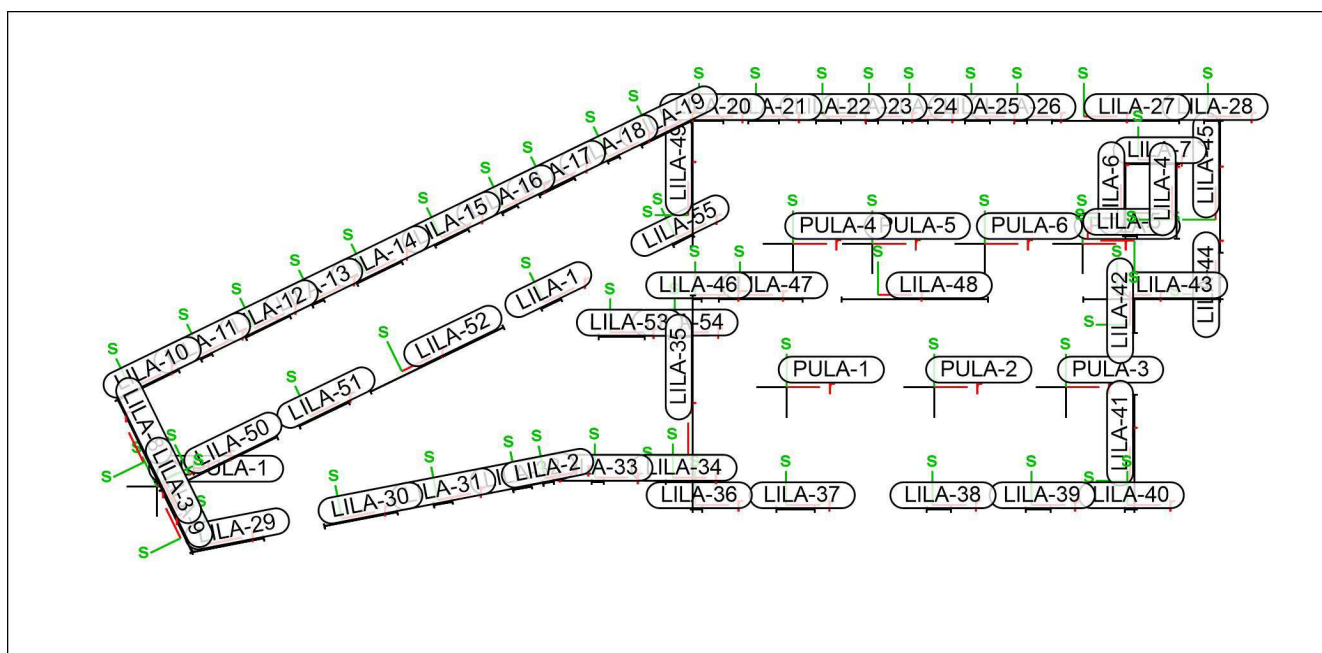
Koordinaten

Position	X	Y
	[m]	[m]
STLA-1	0.00	0.00

Beschr.Standardl.

Beschreibung der Standardlasten

2NP.ueb



Punktlasten beliebig

Position	Lastfall	Art	F/M
			[kN]/[kNm]
PULA-1	aus C-2-1 $\alpha = 0.0^\circ$		
	LF-1	PZ'	-5.36
	LF-1	PZ'	-190.99
	\$(PL-1)-1	PZ'	-20.58
PULA-2	aus C-2-2 $\alpha = 0.0^\circ$		
	LF-1	PZ'	-5.36
	LF-1	PZ'	-244.99
	\$(PL-1)-1	PZ'	-26.56
PULA-3	aus C-2-3 $\alpha = 0.0^\circ$		
	LF-1	PZ'	-5.36
	LF-1	PZ'	-189.75
	\$(PL-1)-1	PZ'	-20.31
PULA-4	aus C-2-4 $\alpha = 0.0^\circ$		
	LF-1	PZ'	-4.29
	LF-1	PZ'	-111.69
	\$(PL-1)-1	PZ'	-12.57
PULA-5	aus C-2-5 $\alpha = 0.0^\circ$		
	LF-1	PZ'	-4.29

beliebig

Position	Lastfall	Art	F/M [kN]/[kNm]
PULA-6	LF-1	Pz'	-131.79
	#(PL-1)-1	Pz'	-14.91
	<i>aus C-2-6</i>		
	$\alpha = 0.0^\circ$		
PULA-7	LF-1	Pz'	-4.29
	LF-1	Pz'	-156.21
	#(PL-1)-1	Pz'	-17.53
	<i>aus C-2-9</i>		
RLPULA-1	<i>Restlast</i>		
	$\alpha = 26.0^\circ$		
	LF-2	Pz'	-3.13
	LF-2	Mx'	-0.77
	LF-4	Pz'	1.25
	LF-4	Mx'	0.31

Koordinaten

Position	X [m]	Y [m]
PULA-1	27.18	6.83
PULA-2	33.13	6.83
PULA-3	38.45	6.83
PULA-4	27.45	12.64
PULA-5	30.65	12.64
PULA-6	35.18	12.64
PULA-7	39.12	12.64
RLPULA-1	1.79	2.82

Linienlasten
lokal

Position	Lastfall	Art	F _A /M _A [kN/m]/[kNm/m]	F _E /M _E [kN/m]/[kNm/m]
LILA-1	<i>aus C-2-7</i>			
	LF-1	pt	-21.88	-21.88
	LF-1	pt	-211.13	-207.98
	#(PL-1)-1	pt	-23.28	-23.01
LILA-2	<i>aus C-2-8</i>			
	LF-1	pt	-22.75	-22.75
	LF-1	pt	-322.21	-393.99
	#(PL-1)-1	pt	-30.50	-37.87
LILA-3	<i>aus C-2-10</i>			
	LF-1	pt	-19.50	-19.50
	LF-1	pt	-33.75	-30.06
	#(PL-1)-1	pt	-2.61	-2.20
LILA-4	<i>aus W-1</i>			
	LF-1	pt	-17.50	-17.50
	LF-1	pt	-43.70	-7.31
	#(PL-1)-1	pt	-3.73	-0.72
LILA-5	<i>aus W-2</i>			
	LF-1	pt	-11.05	-11.05
	LF-1	pt	-55.48	-48.50
	#(PL-1)-1	pt	-4.74	-4.14
LILA-6	<i>aus W-3</i>			
	LF-1	pt	-17.50	-17.50
	LF-1	pt	-26.43	-39.18
	#(PL-1)-1	pt	-2.26	-4.13
LILA-7	<i>aus W-4</i>			
	LF-1	pt	-17.50	-17.50
	LF-1	pt	-34.20	-10.31
	#(PL-1)-1	pt	-3.49	-0.87

lokal

Position	Lastfall	Art	F_A/M_A [kN/m]	F_E/M_E [kNm/m]
LILA-8	<i>aus W-5</i>			
	LF-1	pt	-25.20	-25.20
	LF-1	pt	-11.74	-8.32
	#(PL-1)-1	pt	-1.15	-0.53
LILA-9	<i>aus W-6</i>			
	LF-1	pt	-18.00	-18.00
	LF-1	pt	-6.40	-5.98
	#(PL-1)-1	pt	-0.33	-0.47
LILA-10	<i>aus W-7</i>			
	LF-1	pt	-25.20	-25.20
	LF-1	pt	1.89	-37.37
	#(PL-1)-1	pt	0.52	-3.64
LILA-11	<i>aus W-8</i>			
	LF-1	pt	-25.20	-25.20
	LF-1	pt	-51.03	-52.00
	#(PL-1)-1	pt	-4.86	-4.95
LILA-12	<i>aus W-9</i>			
	LF-1	pt	-25.20	-25.20
	LF-1	pt	-34.54	-27.40
	#(PL-1)-1	pt	-3.27	-2.53
LILA-13	<i>aus W-10</i>			
	LF-1	pt	-25.20	-25.20
	LF-1	pt	-42.90	-43.93
	#(PL-1)-1	pt	-3.95	-4.04
LILA-14	<i>aus W-11</i>			
	LF-1	pt	-25.20	-25.20
	LF-1	pt	-30.72	-24.68
	#(PL-1)-1	pt	-2.80	-2.22
LILA-15	<i>aus W-12</i>			
	LF-1	pt	-25.20	-25.20
	LF-1	pt	-29.36	-32.96
	#(PL-1)-1	pt	-2.65	-2.99
LILA-16	<i>aus W-13</i>			
	LF-1	pt	-25.20	-25.20
	LF-1	pt	-40.26	-38.63
	#(PL-1)-1	pt	-3.69	-3.57
LILA-17	<i>aus W-14</i>			
	LF-1	pt	-25.20	-25.20
	LF-1	pt	-32.70	-44.81
	#(PL-1)-1	pt	-3.08	-4.30
LILA-18	<i>aus W-15</i>			
	LF-1	pt	-25.20	-25.20
	LF-1	pt	-51.55	-48.78
	#(PL-1)-1	pt	-4.82	-4.53
LILA-19	<i>aus W-16</i>			
	LF-1	pt	-25.20	-25.20
	LF-1	pt	-22.55	6.31
	#(PL-1)-1	pt	-1.90	0.98
LILA-20	<i>aus W-17</i>			
	LF-1	pt	-25.20	-25.20
	LF-1	pt	2.53	-17.93
	#(PL-1)-1	pt	0.61	-1.50
LILA-21	<i>aus W-18</i>			
	LF-1	pt	-25.20	-25.20
	LF-1	pt	-30.73	-46.53
	#(PL-1)-1	pt	-2.86	-4.51
LILA-22	<i>aus W-19</i>			
	LF-1	pt	-25.20	-25.20
	LF-1	pt	-52.39	-51.18
	#(PL-1)-1	pt	-5.11	-5.00

lokal

Position	Lastfall	Art	F_A/M_A [kN/m]	F_E/M_E [kNm/m]
LILA-23	<i>aus W-20</i>			
	LF-1	pt	-25.20	-25.20
	LF-1	pt	-54.95	-54.99
	#(PL-1)-1	pt	-5.37	-5.37
LILA-24	<i>aus W-21</i>			
	LF-1	pt	-25.20	-25.20
	LF-1	pt	-51.46	-53.88
	#(PL-1)-1	pt	-5.04	-5.28
LILA-25	<i>aus W-22</i>			
	LF-1	pt	-25.20	-25.20
	LF-1	pt	-54.12	-52.20
	#(PL-1)-1	pt	-5.30	-5.09
LILA-26	<i>aus W-23</i>			
	LF-1	pt	-25.20	-25.20
	LF-1	pt	-54.17	-52.24
	#(PL-1)-1	pt	-5.24	-5.03
LILA-27	<i>aus W-24</i>			
	LF-1	pt	-25.20	-25.20
	LF-1	pt	-27.27	-2.88
	#(PL-1)-1	pt	-2.53	0.03
LILA-28	<i>aus W-25</i>			
	LF-1	pt	-25.20	-25.20
	LF-1	pt	-13.36	-10.31
	#(PL-1)-1	pt	-0.94	-0.65
LILA-29	<i>aus W-26</i>			
	LF-1	pt	-25.20	-25.20
	LF-1	pt	2.45	-39.77
	#(PL-1)-1	pt	0.39	-3.56
LILA-30	<i>aus W-27</i>			
	LF-1	pt	-25.20	-25.20
	LF-1	pt	-33.21	-29.91
	#(PL-1)-1	pt	-2.76	-2.95
LILA-31	<i>aus W-28</i>			
	LF-1	pt	-25.20	-25.20
	LF-1	pt	-65.45	-70.56
	#(PL-1)-1	pt	-6.37	-6.83
LILA-32	<i>aus W-29</i>			
	LF-1	pt	-25.20	-25.20
	LF-1	pt	-25.10	-28.47
	#(PL-1)-1	pt	-2.10	-2.48
LILA-33	<i>aus W-30</i>			
	LF-1	pt	-25.20	-25.20
	LF-1	pt	-37.61	-37.07
	#(PL-1)-1	pt	-2.79	-2.57
LILA-34	<i>aus W-31</i>			
	LF-1	pt	-25.20	-25.20
	LF-1	pt	-21.40	-17.71
	#(PL-1)-1	pt	-1.45	-1.62
LILA-35	<i>aus W-32</i>			
	LF-1	pt	-25.20	-25.20
	LF-1	pt	-30.93	-26.44
	#(PL-1)-1	pt	-3.09	-2.95
LILA-36	<i>aus W-33</i>			
	LF-1	pt	-25.20	-25.20
	LF-1	pt	-5.16	-20.78
	#(PL-1)-1	pt	0.21	-1.24
LILA-37	<i>aus W-34</i>			
	LF-1	pt	-25.20	-25.20
	LF-1	pt	-70.72	-91.90
	#(PL-1)-1	pt	-6.06	-7.63

lokal

Position	Lastfall	Art	F_A/M_A [kN/m]	F_E/M_E [kNm/m]
LILA-38	<i>aus W-35</i>			
	LF-1	pt	-25.20	-25.20
	LF-1	pt	-119.24	-115.60
	#(PL-1)-1	pt	-10.14	-10.11
LILA-39	<i>aus W-36</i>			
	LF-1	pt	-25.20	-25.20
	LF-1	pt	-91.40	-91.51
	#(PL-1)-1	pt	-8.65	-8.62
LILA-40	<i>aus W-37</i>			
	LF-1	pt	-25.20	-25.20
	LF-1	pt	-35.28	-9.65
	#(PL-1)-1	pt	-2.78	-0.31
LILA-41	<i>aus W-38</i>			
	LF-1	pt	-25.20	-25.20
	LF-1	pt	-11.48	-24.73
	#(PL-1)-1	pt	-0.96	-1.94
LILA-42	<i>aus W-39</i>			
	LF-1	pt	-25.20	-25.20
	LF-1	pt	-23.83	-12.09
	#(PL-1)-1	pt	-1.50	-0.97
LILA-43	<i>aus W-40</i>			
	LF-1	pt	-25.20	-25.20
	LF-1	pt	-43.30	2.01
	#(PL-1)-1	pt	-4.54	0.78
LILA-44	<i>aus W-41</i>			
	LF-1	pt	-25.20	-25.20
	LF-1	pt	-9.53	-17.70
	#(PL-1)-1	pt	-0.53	-1.36
LILA-45	<i>aus W-42</i>			
	LF-1	pt	-25.20	-25.20
	LF-1	pt	-14.07	-7.74
	#(PL-1)-1	pt	-1.14	-0.53
LILA-46	<i>aus W-43</i>			
	LF-1	pt	-25.20	-25.20
	LF-1	pt	-31.03	-28.27
	#(PL-1)-1	pt	-3.34	-3.03
LILA-47	<i>aus W-44</i>			
	LF-1	pt	-25.20	-25.20
	LF-1	pt	-19.35	-33.93
	#(PL-1)-1	pt	-2.07	-3.57
LILA-48	<i>aus W-45</i>			
	LF-1	pt	-25.20	-25.20
	LF-1	pt	-26.02	-39.08
	#(PL-1)-1	pt	-2.79	-4.20
LILA-49	<i>aus W-46</i>			
	LF-1	pt	-25.20	-25.20
	LF-1	pt	-55.25	-16.05
	#(PL-1)-1	pt	-6.16	-1.62
LILA-50	<i>aus W-47</i>			
	LF-1	pt	-21.00	-21.00
	LF-1	pt	-8.91	-66.28
	#(PL-1)-1	pt	-1.01	-7.22
LILA-51	<i>aus W-48</i>			
	LF-1	pt	-21.00	-21.00
	LF-1	pt	-64.65	-68.81
	#(PL-1)-1	pt	-6.84	-7.61
LILA-52	<i>aus W-49</i>			
	LF-1	pt	-21.00	-21.00
	LF-1	pt	-59.87	-54.69
	#(PL-1)-1	pt	-6.75	-6.12

lokal

Position	Lastfall	Art	F_A/M_A [kN/m] / [kNm/m]	F_E/M_E
LILA-53	<i>aus w-50</i>			
	LF-1	pt	-21.00	-21.00
	LF-1	pt	-102.00	-44.20
	#(PL-1)-1	pt	-11.37	-4.91
LILA-54	<i>aus w-51</i>			
	LF-1	pt	-21.00	-21.00
	LF-1	pt	-28.28	-13.10
	#(PL-1)-1	pt	-3.09	-1.36
LILA-55	<i>aus w-52</i>			
	LF-1	pt	-21.00	-21.00
	LF-1	pt	-76.64	-40.71
	#(PL-1)-1	pt	-8.44	-4.45

Koordinaten

Position	Koordinaten in [m]		
LILA-1	x	17.28	18.09
	y	10.01	10.41
LILA-2	x	17.37	17.79
	y	2.94	3.02
LILA-3	x	1.82	1.99
	y	3.06	2.70
LILA-4	x	42.92	42.92
	y	12.86	15.86
LILA-5	x	41.32	40.85
	y	12.96	12.96
LILA-6	x	40.85	40.86
	y	12.96	15.86
LILA-7	x	40.86	42.93
	y	15.86	15.86
LILA-8	x	1.80	0.21
	y	3.05	6.33
LILA-9	x	3.21	1.98
	y	0.17	2.69
LILA-10	x	0.21	2.67
	y	6.33	7.53
LILA-11	x	3.57	4.02
	y	7.97	8.19
LILA-12	x	5.36	7.16
	y	8.84	9.72
LILA-13	x	8.06	8.51
	y	10.16	10.38
LILA-14	x	9.86	11.66
	y	11.04	11.91
LILA-15	x	13.00	14.35
	y	12.57	13.23
LILA-16	x	15.70	16.32
	y	13.89	14.19
LILA-17	x	17.20	18.62
	y	14.62	15.31
LILA-18	x	19.97	20.42
	y	15.97	16.19
LILA-19	x	21.32	23.34
	y	16.63	17.61
LILA-20	x	23.34	24.63
	y	17.61	17.61
LILA-21	x	25.63	26.88
	y	17.61	17.61
LILA-22	x	28.38	29.38
	y	17.61	17.61
LILA-23	x	30.38	30.88
	y	17.61	17.61

Position	Koordinaten in [m]		
LILA-24	x	31.88	32.88
	y	17.61	17.61
LILA-25	x	34.38	35.38
	y	17.61	17.61
LILA-26	x	36.38	36.88
	y	17.61	17.61
LILA-27	x	37.88	43.03
	y	17.61	17.61
LILA-28	x	44.03	44.68
	y	17.61	17.61
LILA-29	x	3.21	6.09
	y	0.17	0.73
LILA-30	x	8.54	11.49
	y	1.21	1.78
LILA-31	x	12.96	13.70
	y	2.06	2.21
LILA-32	x	16.15	16.89
	y	2.68	2.83
LILA-33	x	19.32	19.82
	y	3.00	3.00
LILA-34	x	22.32	23.41
	y	3.00	3.00
LILA-35	x	23.41	23.41
	y	1.89	10.54
LILA-36	x	23.41	23.78
	y	1.89	1.89
LILA-37	x	26.78	28.32
	y	1.89	1.89
LILA-38	x	32.82	33.82
	y	1.89	1.89
LILA-39	x	36.82	37.82
	y	1.89	1.89
LILA-40	x	40.82	41.21
	y	1.89	1.89
LILA-41	x	41.21	41.21
	y	1.89	6.52
LILA-42	x	41.21	41.21
	y	9.02	10.39
LILA-43	x	39.14	44.68
	y	10.39	10.39
LILA-44	x	44.68	44.68
	y	10.39	11.29
LILA-45	x	44.68	44.68
	y	12.29	17.61
LILA-46	x	23.41	23.76
	y	10.39	10.39
LILA-47	x	24.45	27.82
	y	10.39	10.39
LILA-48	x	29.41	35.30
	y	10.39	10.39
LILA-49	x	23.41	23.41
	y	12.54	17.61
LILA-50	x	2.04	6.63
	y	2.58	4.82
LILA-51	x	7.53	9.52
	y	5.26	6.23
LILA-52	x	10.40	15.76
	y	6.66	9.27
LILA-53	x	19.61	21.46
	y	8.88	8.88
LILA-54	x	22.44	23.41

Position	Koordinaten in [m]		
	y	8.88	8.88
LILA-55	x	22.59	23.41
	y	12.60	13.00

Einwirkungen

Einwirkungen nach DIN EN 1990

Gk	Ständige Einwirkungen
Pk	Belastungen infolge Vorspannung
Qk.N	Kategorie A - wohn- und Aufenthaltsräume
Qk.S	Schnee- und Eislasten für Orte bis NN + 1000 m
Qk.W	Windlasten
Qk.T	Temperatureinwirkungen
AEd	Erdbebeneinwirkung

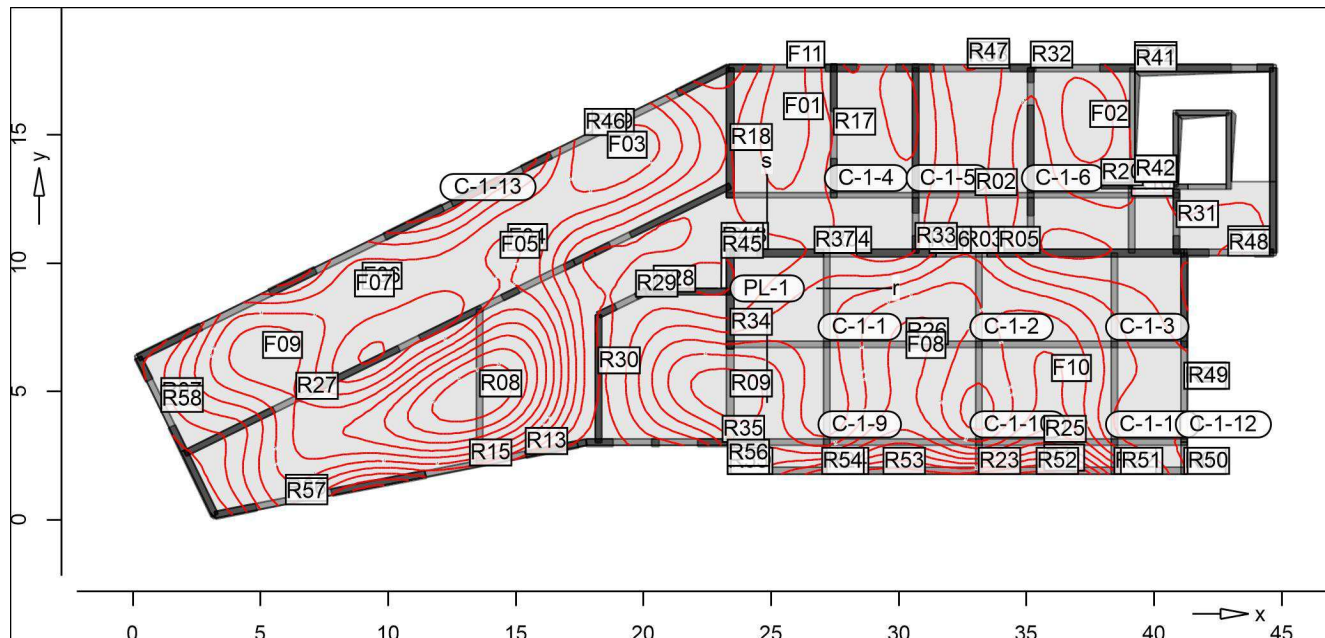
Lastfälle

Lastfälle und deren Zuordnung zu den Einwirkungen

Gk	LF-1
Qk.N	LF-2 (PL-1)-1
	LG-1 (LF-3)
Qk.S	#(PL-1)-1
Qk.W	LF-4
Pk	VOR-1
Qk.T	TEMP-1

Pos. PL-1 - Plattenverformung

aus Lastkombination LK-1

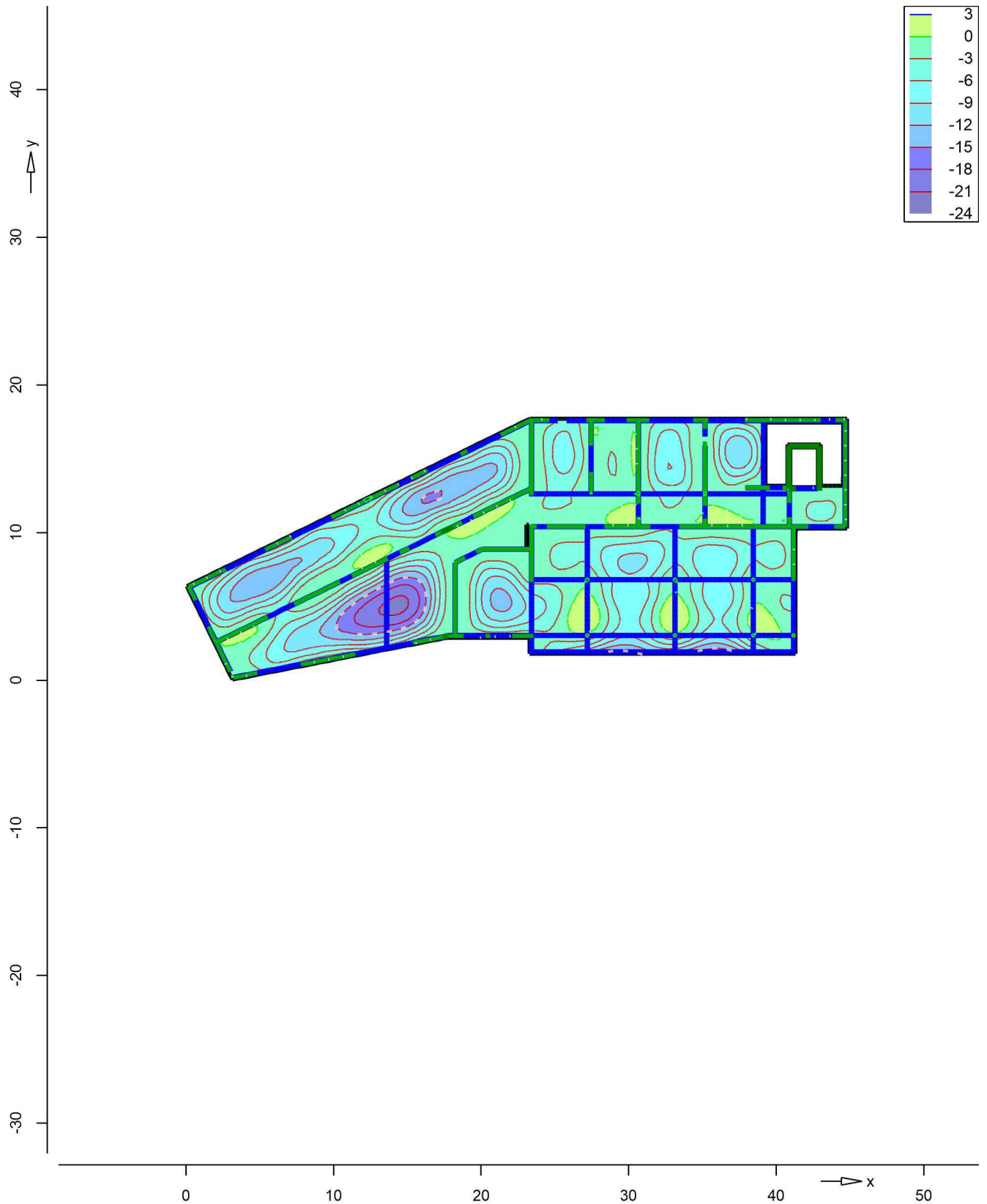


Isolinienstufen = 0.20 mm

Markierung der lokalen Extrema erst ab
 Verformungen > 0.20 mm

Punkt	x [m]	y [m]	max uz [mm]
C-1-1			-0.75
C-1-9			-0.98
C-1-2			-0.93
C-1-10			-1.09
C-1-3			-0.70
C-1-11			-0.77
C-1-12			-0.38
C-1-4			-0.38
C-1-5			-0.33
C-1-6			-0.35
C-1-13			-0.15
F01	25.50	15.60	-0.72
F02	37.50	15.30	-0.73
F03	18.60	14.10	-1.17
F04	14.70	10.50	-1.04
F05	14.40	10.20	-1.04
F06	9.00	9.00	-0.94
F07	8.70	8.70	-0.94
F08	30.30	6.30	-1.25
F09	5.10	6.30	-1.37
F10	36.00	5.40	-1.23
F11	25.63	17.61	-0.72
R01	41.18	1.78	-0.43
R02	33.00	12.64	-0.63
R03	32.50	10.39	-0.79
R04	27.29	10.39	-0.44
R05	33.90	10.39	-0.57
R06	31.20	10.39	-0.56
R07	1.12	4.50	-0.27
R08	13.59	4.80	-2.18
R09	23.41	4.80	-1.34
R10	23.43	1.78	-1.17
R11	35.70	1.91	-2.37
R12	39.25	17.59	-0.26
R13	15.39	2.56	-0.62
R14	42.90	10.41	-0.42
R15	13.20	2.11	-0.81
R16	39.12	12.62	-0.41
R17	27.45	15.00	-0.39
R18	23.41	14.40	-0.40
R19	39.16	12.90	-0.40
R20	37.93	13.03	-0.46
R21	41.18	5.10	-0.52
R22	38.45	1.78	-1.47
R23	33.13	1.78	-2.27
R24	27.18	1.78	-2.02
R25	35.70	3.03	-1.58
R26	30.30	6.83	-1.25
R27	6.40	4.71	-1.20
R28	20.40	8.88	-0.29
R29	19.71	8.69	-0.28
R30	18.23	5.70	-0.20
R31	40.88	11.40	-0.21
R32	35.17	17.61	-0.42
R33	30.65	10.54	-0.40
R34	23.41	7.20	-0.64
R35	23.10	3.03	-0.86
R36	6.00	0.73	-0.85
R37	26.70	10.39	-0.43
R38	32.70	17.59	-0.81

Punkt	x [m]	y [m]	max uz [mm]
R39	18.00	14.99	-1.08
R40	39.25	13.15	-0.39
R41	39.25	17.46	-0.26
R42	39.25	13.17	-0.39
R43	23.26	10.54	-0.23
R44	23.06	10.54	-0.23
R45	23.06	10.20	-0.21
R46	17.70	14.99	-1.07
R47	32.70	17.72	-0.82
R48	42.90	10.28	-0.43
R49	41.31	5.10	-0.52
R50	41.31	1.78	-0.40
R51	38.70	1.78	-1.33
R52	35.40	1.78	-2.47
R53	29.40	1.78	-2.37
R54	27.00	1.78	-1.97
R55	23.30	1.78	-1.14
R56	23.30	2.10	-1.07
R57	5.99	0.60	-0.82
R58	1.12	4.20	-0.22



Verformungsnachweis Zustand II	Endverformung f_{00} im Zustand II	Maßstab: 1:375
Minimum aus Überlagerung über LKN in [mm] Max = 2.6 (Kn. 1787), Min = -22.0 (Kn. 2150), Step = 3		

Pos. PL-1 - Plattenbemessung (Isolinien)

Bemessung

Plattenbemessung nach DIN EN 1992-1-1

Beton C 30/37, Betonstahl B 500MA

Gesteinskörnung Quarzit

Bew.-Abstände $d', ru/su = 3.0 / 3.0$ cm

$d', ro/so = 3.0 / 3.0$ cm

Grundbewehrung $asg, ru/su = 0.00 / 0.00$ cm²/m

$asg, ro/so = 0.00 / 0.00$ cm²/m

Bemessungswinkel $w, ru/su = 0.0 / 90.0$ °

$w, ro/so = 0.0 / 90.0$ °

Mindestbewehrung (9.2.1.1) wurde nicht ermittelt.

Dicke konstant $h = 25.00$ cm

Kombinationen

Maßgebende Kombinationen nach DIN EN 1990

Zur Bemessung wurden folgende Kombinationen untersucht:

- Grundkombination

Ew Einwirkungsname

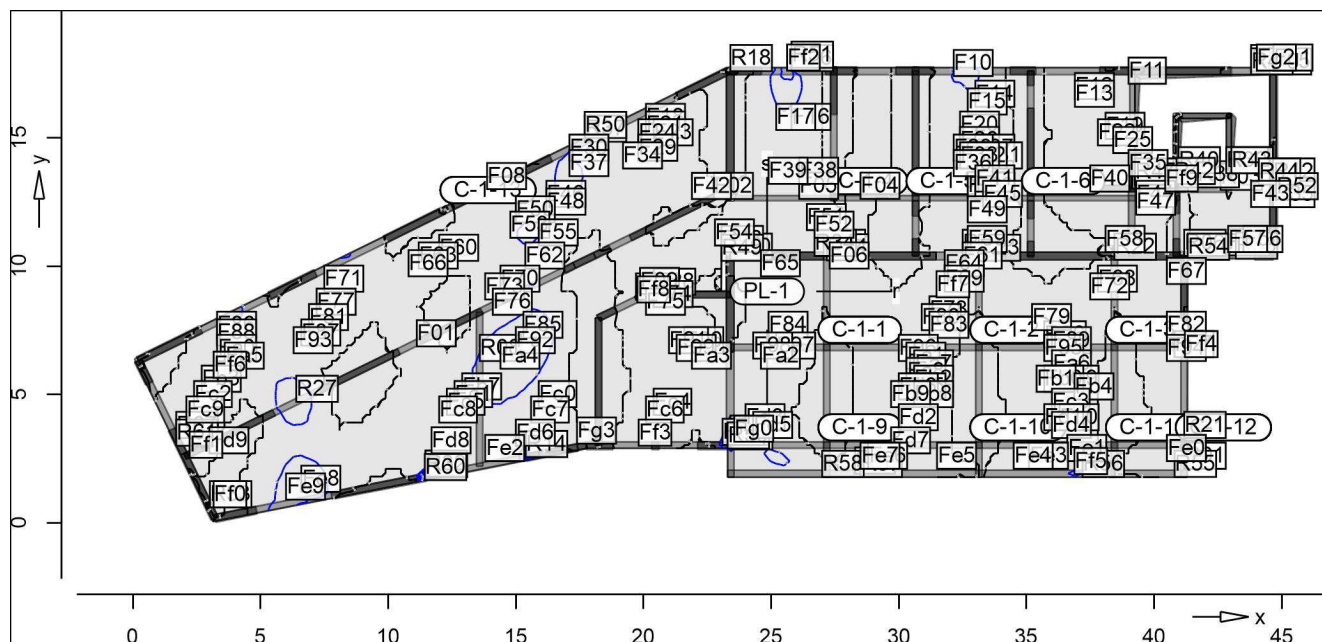
Lkn Lastkombinationsnummer

! vorherrschende veränderliche Einwirkung

Die Beteiligung einzelner Lastfälle innerhalb einer Einwirkung wird mit diesem Ausgabeformat nicht dokumentiert.

Ew	Gk	Qk.N	Qk.S	Qk.W
Lkn	Grundkombination			
1-3	1.35	1.50!	0.75	.
4-5	1.35	1.50!	.	.
6	1.00	1.50!	.	.
7	1.35	.	1.50!	.
8-10	1.35	1.05	1.50!	.

Erforderliche untere Bewehrung $a_{s,ru}$ [cm²/m]



Isolinienstufen = 2.00 cm²/m

Bew.-Abstand: $d', ru = 3.0 \text{ cm}$

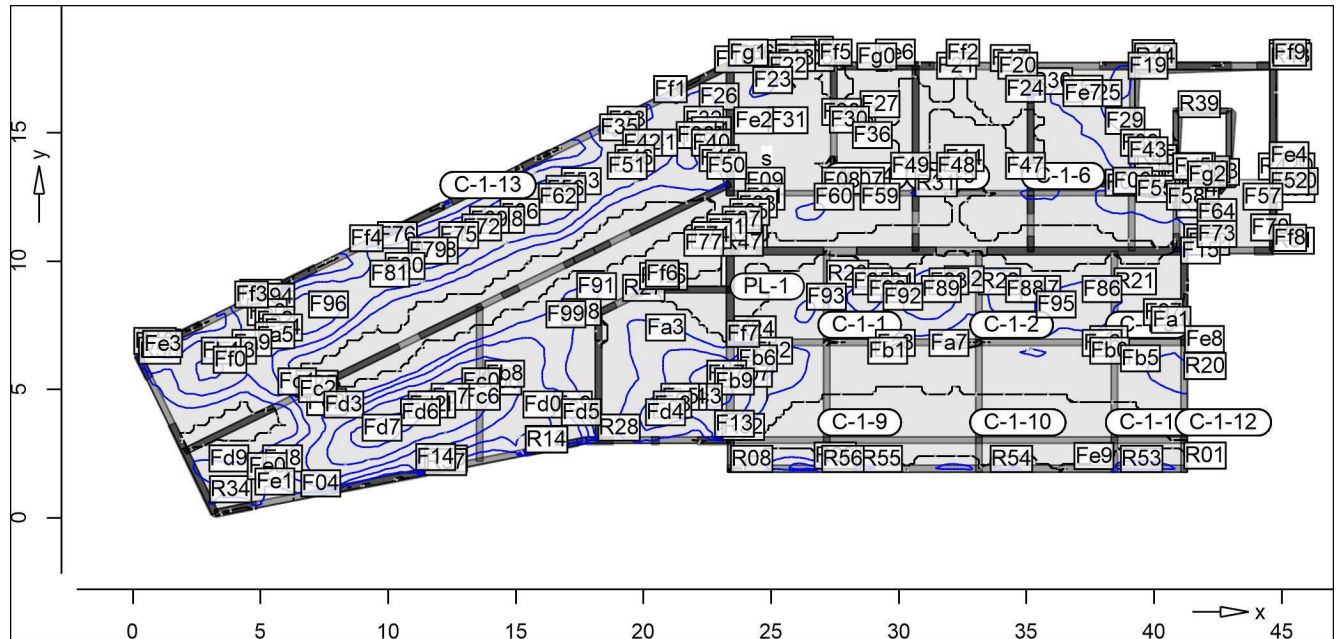
Punkt	x	y [m]	mrEd	msEd	mrsEd	mEd [kNm/m]	as, ru [cm ² /m]	Lkn
C-1-12			-0.22	-12.63	-11.08	9.51	0.96	7
C-1-13			-2.46	-0.92	-11.84	9.39	0.95	1
F01	11.12	6.87	-0.72	-24.38	19.41	14.73	1.47	2
F02	22.76	12.61	-7.54	-7.65	9.13	1.59	0.15	2
F03	33.00	12.62	11.47	-4.39	-0.98	11.69	1.21	2
F04	28.50	12.62	-1.06	-1.29	-2.50	1.44	0.14	2
F05	26.10	12.62	6.54	-0.36	3.88	10.41	1.06	2
F06	27.29	9.90	9.25	-0.71	3.61	12.86	1.37	8
F07	40.80	6.45	1.05	3.57	3.75	4.79	0.49	7
F08	13.88	13.00	3.06	-0.20	0.72	3.78	0.38	7
F09	19.87	8.91	10.93	9.44	3.11	14.03	1.47	9
F10	32.15	17.40	19.02	-1.20	-2.42	21.44	2.22	8
F11	39.00	17.10	-0.28	0.88	-9.58	9.29	0.93	5
F12	36.90	16.50	13.62	3.81	4.58	18.20	1.91	1
F13	36.90	16.20	14.20	5.02	4.08	18.27	1.91	1
F14	33.00	16.20	16.99	-1.05	0.45	17.18	1.72	2
F15	32.70	15.90	17.66	-1.26	-0.02	17.66	1.72	2
F16	25.80	15.30	15.87	2.94	-0.12	16.00	1.62	2
F17	25.20	15.30	14.81	2.67	-1.25	16.06	1.62	2
F18	20.10	15.30	10.71	7.36	-2.38	13.09	1.37	5
F19	38.10	14.95	14.81	7.43	2.62	17.43	1.72	1
F20	32.40	15.00	16.02	-0.86	-0.69	16.57	1.62	2
F21	20.10	15.00	9.22	10.69	-3.79	13.00	1.37	5
F22	37.80	14.70	15.42	6.18	1.77	17.18	1.72	1
F23	20.40	14.70	8.53	13.95	-3.30	11.83	1.21	5
F24	19.80	14.70	6.66	13.30	-5.34	12.00	1.21	5
F25	38.40	14.40	9.46	3.72	5.58	15.04	1.57	1
F26	32.40	14.40	15.10	-0.35	-1.10	16.20	1.62	2
F27	33.00	14.10	14.88	0.08	0.07	14.95	1.57	2
F28	32.15	14.10	13.25	-0.38	-1.89	15.14	1.57	2

Punkt	x	y [m]	mrEd	msEd	mrsEd	mEd [kNm/m]	as, ru [cm ² /m]	Lkn
F29	19.80	14.10	5.82	16.44	-4.97	10.79	1.08	5
F30	17.10	14.10	15.16	-0.50	-6.57	21.73	2.22	1
F31	33.30	13.80	13.10	0.08	0.88	13.98	1.47	2
F32	32.70	13.80	14.31	0.09	-0.73	15.04	1.57	2
F33	32.40	13.80	13.70	-0.04	-1.54	15.24	1.57	2
F34	19.20	13.80	5.97	16.61	-4.69	10.66	1.08	5
F35	39.00	13.50	1.94	-0.74	8.83	10.77	1.08	5
F36	32.15	13.50	11.79	-0.28	-2.37	14.16	1.47	4
F37	17.10	13.50	10.74	6.58	-11.46	22.20	2.22	1
F38	26.10	13.20	8.96	-0.67	1.84	10.81	1.08	4
F39	24.90	13.20	9.44	1.18	-2.55	11.98	1.21	2
F40	37.50	12.90	7.57	-3.09	4.61	12.18	1.21	4
F41	33.00	12.90	11.76	-2.66	-0.45	11.83	1.21	4
F42	21.90	12.61	-8.85	-5.98	10.37	1.52	0.15	4
F43	43.80	12.30	7.41	-0.38	-6.55	13.96	1.47	2
F44	39.30	12.30	7.14	5.06	3.78	10.91	1.08	8
F45	33.30	12.30	10.09	-1.43	-1.62	11.70	1.21	4
F46	16.20	12.30	4.84	13.08	-14.77	19.61	1.96	1
F47	39.30	12.00	6.54	3.80	4.22	10.76	1.08	8
F48	16.20	12.00	5.24	12.56	-14.52	19.76	1.96	1
F49	32.70	11.70	13.11	-1.94	-1.92	15.01	1.57	2
F50	15.00	11.70	9.53	13.04	-9.65	19.18	1.96	1
F51	26.40	11.40	2.52	1.02	5.16	7.68	0.77	2
F52	26.70	11.10	3.04	-3.15	5.39	8.43	0.85	2
F53	14.79	11.10	12.58	12.07	-6.91	19.49	1.96	1
F54	22.80	10.80	0.12	0.70	-4.88	5.00	0.51	2
F55	15.90	10.80	9.94	1.28	-9.27	19.21	1.96	2
F56	43.50	10.54	11.97	0.45	-1.97	13.94	1.47	4
F57	42.90	10.54	13.43	0.70	1.46	14.89	1.57	4
F58	38.10	10.54	1.87	-24.56	-0.40	1.88	0.19	4
F59	32.70	10.54	17.41	-5.82	-1.95	18.06	1.91	2
F60	12.00	10.20	-3.26	18.61	-5.83	2.57	0.27	5
F61	32.50	9.90	14.56	-0.08	-3.55	18.11	1.91	2
F62	15.37	9.90	16.05	-4.69	2.20	17.08	1.72	2
F63	11.20	9.90	-0.39	18.94	-4.21	3.82	0.38	5
F64	31.80	9.60	9.54	1.44	-8.00	17.55	1.72	2
F65	24.60	9.60	0.61	-4.66	4.89	5.50	0.55	5
F66	10.80	9.60	-0.52	17.58	-3.87	3.34	0.33	5
F67	40.50	9.30	2.05	-0.80	-4.68	6.73	0.68	1
F68	37.80	9.00	-0.84	3.23	-6.75	5.91	0.59	2
F69	31.80	9.00	8.09	8.39	-8.05	16.14	1.62	2
F70	14.40	9.00	9.45	-17.53	5.44	11.13	1.08	4
F71	7.50	9.00	5.62	4.66	-13.89	19.52	1.96	1
F72	37.50	8.70	-0.10	5.99	-5.97	5.87	0.59	5
F73	13.80	8.70	5.23	-19.08	13.02	14.11	1.47	8
F74	20.40	8.40	7.58	-6.65	6.48	13.88	1.47	1
F75	20.10	8.10	6.34	-3.34	7.48	13.82	1.47	1
F76	14.10	8.10	14.58	-17.46	3.63	15.34	1.57	2
F77	7.20	8.10	2.63	12.82	-14.46	17.09	1.72	1
F78	31.20	7.80	7.18	9.57	-5.70	12.88	1.37	5
F79	35.22	7.50	8.24	7.75	4.59	12.83	1.37	5
F80	30.90	7.50	7.76	7.81	-4.53	12.29	1.21	5
F81	6.90	7.50	4.50	14.26	-11.01	15.51	1.57	1
F82	40.50	7.20	2.76	-0.96	3.19	5.95	0.59	1
F83	31.20	7.20	7.63	4.01	-4.34	11.96	1.21	5
F84	24.90	7.20	4.91	-3.39	-8.59	13.50	1.37	1
F85	15.30	7.20	20.29	5.89	-7.54	27.84	2.85	2
F86	3.30	7.20	11.88	6.41	-3.10	14.98	1.57	1
F87	6.60	6.90	7.28	11.75	-7.02	14.30	1.47	1
F88	3.30	6.90	10.44	10.13	-4.78	15.22	1.57	1

Punkt	x	y [m]	mrEd	msEd	mrsEd	mEd [kNm/m]	as, ru [cm ² /m]	Lkn
F89	36.00	6.60	11.40	3.83	1.77	13.17	1.37	5
F90	21.60	6.60	9.63	8.05	6.32	15.95	1.62	1
F91	21.00	6.60	10.34	7.61	6.24	16.58	1.62	5
F92	15.00	6.60	20.57	9.89	-7.79	28.36	2.85	2
F93	6.30	6.60	9.22	10.49	-4.01	13.23	1.37	1
F94	40.50	6.30	1.21	4.18	3.48	4.69	0.47	7
F95	35.70	6.30	11.68	4.78	2.14	13.82	1.47	5
F96	30.00	6.30	11.08	2.17	-0.69	11.77	1.21	5
F97	25.20	6.39	3.60	4.32	-8.25	11.85	1.21	2
F98	24.30	6.39	3.86	6.82	-7.86	11.72	1.21	8
F99	21.30	6.30	10.12	10.39	5.82	15.94	1.62	5
Fa0	3.30	6.30	8.64	15.26	-6.34	14.98	1.57	1
Fa1	30.30	6.00	11.71	1.73	-1.14	12.85	1.37	5
Fa2	24.60	6.00	4.80	9.76	-6.91	11.71	1.21	2
Fa3	21.90	6.00	8.06	14.14	5.87	13.94	1.47	5
Fa4	14.40	6.00	18.15	15.02	-8.68	26.82	2.79	2
Fa5	3.60	6.00	8.18	16.50	-5.79	13.97	1.47	1
Fa6	36.00	5.70	13.21	3.51	1.01	14.22	1.47	1
Fa7	30.60	5.70	11.48	0.83	-1.56	13.03	1.37	5
Fa8	30.30	5.40	12.78	-0.74	-1.07	13.85	1.47	1
Fa9	36.30	5.10	14.44	-0.26	-0.54	14.98	1.57	1
Fb0	35.70	5.10	13.86	-1.16	0.91	14.57	1.47	1
Fb1	35.40	5.10	12.30	-1.47	1.57	13.88	1.47	1
Fb2	30.60	5.10	12.45	-2.55	-1.55	13.39	1.37	5
Fb3	2.70	5.10	6.49	11.99	-6.95	13.44	1.37	5
Fb4	36.88	4.80	12.66	-2.21	-2.32	14.98	1.57	1
Fb5	30.30	4.80	13.96	-4.99	-0.96	14.15	1.47	5
Fb6	30.00	4.80	14.10	-5.33	-0.36	14.12	1.47	1
Fb7	12.90	4.80	9.61	25.47	-8.66	18.26	1.91	2
Fb8	30.60	4.50	13.61	-8.37	-1.51	13.89	1.47	1
Fb9	29.70	4.50	13.95	-8.33	0.27	13.96	1.47	1
Fc0	15.90	4.50	9.37	16.23	2.42	11.79	1.21	4
Fc1	12.60	4.50	8.87	26.66	-8.43	17.30	1.72	2
Fc2	2.40	4.50	7.20	4.27	-6.37	13.56	1.37	5
Fc3	36.00	4.20	17.04	-11.52	-1.26	17.18	1.72	1
Fc4	20.40	4.20	4.35	9.88	-6.59	10.94	1.08	5
Fc5	12.30	4.20	8.10	27.40	-8.18	16.28	1.62	2
Fc6	20.10	3.90	3.11	7.16	-8.62	11.73	1.21	5
Fc7	15.60	3.90	8.14	16.11	2.79	10.92	1.08	4
Fc8	12.00	3.90	7.23	27.72	-7.80	15.02	1.57	2
Fc9	2.10	3.90	7.84	-2.70	-5.64	13.48	1.37	5
Fd0	36.30	3.60	18.17	-20.12	-2.55	18.49	1.91	1
Fd1	35.70	3.60	17.97	-20.57	-1.51	18.08	1.91	1
Fd2	30.00	3.60	15.86	-17.66	-0.89	15.91	1.57	1
Fd3	24.00	3.60	11.94	-5.70	11.62	23.56	2.39	9
Fd4	36.00	3.30	18.98	-24.21	-2.06	19.15	1.96	1
Fd5	24.30	3.30	14.43	-13.46	10.70	22.94	2.32	9
Fd6	15.00	3.00	7.99	10.63	4.99	12.98	1.37	2
Fd7	29.70	2.70	12.60	-16.30	-4.50	13.85	1.47	5
Fd8	11.70	2.70	6.85	18.04	-3.93	10.78	1.08	2
Fd9	3.00	2.70	-5.31	-5.58	6.56	1.24	0.12	5
Fe0	40.50	2.40	-0.08	-7.57	-10.24	10.16	1.03	7
Fe1	36.60	2.40	16.99	-12.90	1.33	17.12	1.72	5
Fe2	13.80	2.40	5.83	3.61	0.75	6.58	0.66	2
Fe3	35.10	2.10	8.34	-5.81	-7.61	15.94	1.62	2
Fe4	34.50	2.10	3.76	-6.52	-11.17	14.94	1.57	8
Fe5	31.50	2.10	-0.57	-5.64	10.81	10.24	1.04	1
Fe6	28.80	2.10	8.17	-5.59	-11.25	19.42	1.96	1
Fe7	28.50	2.10	8.04	-6.43	-11.19	19.22	1.96	9
Fe8	6.60	1.20	17.95	0.08	-12.24	30.19	3.03	2

Punkt	x	y [m]	mrEd	msEd	mrsEd	mEd [kNm/m]	as, ru [cm ² /m]	Lkn
Fe9	6.00	0.90	22.95	-0.65	-5.77	28.72	2.98	2
Ff0	3.16	0.60	0.08	5.26	-2.72	2.80	0.28	5
Ff1	2.22	2.53	-2.06	-0.68	4.13	2.07	0.20	5
Ff2	25.63	17.61	51.07	0.16	-4.24	55.31	5.77	1
Ff3	19.81	3.00	4.23	1.12	-8.75	12.98	1.37	5
Ff4	41.21	6.45	0.04	3.29	3.23	3.27	0.32	7
Ff5	36.88	1.89	18.86	1.07	2.87	21.72	2.22	1
Ff6	3.17	5.65	8.13	16.60	-6.78	14.91	1.57	5
Ff7	31.48	8.78	7.30	10.59	-7.93	15.22	1.57	2
Ff8	19.76	8.58	4.28	-6.45	6.29	10.41	1.06	9
Ff9	40.44	12.90	1.50	1.19	8.75	10.25	1.04	2
Fg0	23.56	3.15	13.07	-21.10	20.68	33.34	3.40	9
Fg1	44.68	17.61	0.74	0.63	-0.47	1.21	0.12	2
Fg2	44.03	17.61	0.61	-0.11	-0.74	1.34	0.13	2
Fg3	17.40	3.08	-15.22	5.38	21.01	5.79	0.58	2
R01	41.18	2.10	-0.80	-2.77	-6.89	6.09	0.61	7
R02	32.70	12.64	11.67	-5.34	-1.12	11.91	1.21	2
R03	42.60	12.96	0.77	-2.94	-2.59	3.04	0.31	2
R04	32.50	10.39	17.28	-3.74	-2.03	18.37	1.91	8
R05	27.06	10.39	7.00	-14.85	8.44	11.79	1.21	2
R06	41.18	10.39	-21.98	-0.20	-41.50	19.52	1.96	2
R07	1.70	3.30	6.58	-4.48	-4.56	11.14	1.08	2
R08	13.59	6.30	11.77	11.60	-9.54	21.31	2.22	2
R09	23.41	3.15	13.34	-16.32	19.71	33.05	3.40	1
R10	23.43	2.85	32.69	-24.24	3.23	33.12	3.40	9
R11	28.29	1.91	9.01	-1.51	-12.86	21.87	2.22	9
R12	44.66	13.17	2.04	-0.41	-2.16	4.20	0.42	2
R13	43.80	17.59	0.76	-0.17	-0.53	1.29	0.13	4
R14	15.39	2.56	0.69	39.10	79.85	80.54	8.49	2
R15	42.90	10.41	14.22	0.32	0.96	15.18	1.57	4
R16	11.47	1.77	63.55	-15.66	-73.60	137.15	15.51	2
R17	39.12	13.03	9.34	0.24	2.76	12.09	1.21	5
R18	23.41	17.59	-2.59	0.49	14.62	12.03	1.21	2
R19	39.16	13.03	10.45	0.01	1.74	12.18	1.21	5
R20	39.26	13.03	9.55	0.83	-0.01	9.57	0.97	2
R21	41.18	3.30	1.21	-3.36	-5.42	6.63	0.67	7
R22	38.45	10.24	8.00	-4.84	-4.49	12.17	1.21	2
R23	33.13	10.20	15.17	-0.61	0.78	15.95	1.62	2
R24	27.18	10.22	11.62	-2.34	2.38	14.00	1.47	2
R25	23.27	3.03	9.77	-44.36	28.01	27.46	2.79	1
R26	35.70	6.83	10.67	1.62	2.64	13.31	1.37	5
R27	6.40	4.71	15.63	-1.73	16.29	31.93	3.26	4
R28	20.40	8.88	6.33	-7.47	6.04	11.21	1.08	9
R29	19.71	8.69	4.47	-8.56	5.53	8.05	0.81	7
R30	23.41	10.24	0.11	-2.51	1.33	0.81	0.07	7
R31	23.10	3.03	4.08	-6.79	27.11	31.19	3.22	1
R32	11.46	1.79	112.67	-28.25	-66.98	179.65	21.29	2
R33	3.02	0.60	1.10	7.74	-1.15	2.25	0.23	1
R34	26.70	10.39	3.62	-15.37	5.08	5.30	0.53	8
R35	44.66	12.29	0.08	-1.16	-5.96	6.04	0.60	2
R36	25.80	17.59	48.27	7.49	-0.93	49.20	5.07	9
R37	17.70	14.84	18.04	3.81	7.05	25.09	2.51	9
R38	41.70	13.06	0.39	-0.39	0.15	0.45	0.05	7
R39	42.83	13.61	1.61	-2.54	0.75	1.84	0.19	2
R40	40.96	13.61	4.93	-4.89	-0.05	4.93	0.50	2
R41	39.25	13.15	7.43	-1.02	-2.76	10.19	1.03	10
R42	40.76	13.19	0.39	-0.41	-0.99	1.38	0.13	2
R43	43.03	13.61	1.56	-2.75	0.43	1.63	0.16	2
R44	44.10	13.17	6.17	0.18	-4.59	10.75	1.08	2
R45	44.53	17.46	0.45	0.22	-0.97	1.42	0.14	2

Punkt	x	y [m]	mrEd	msEd	mrsEd	mEd [kNm/m]	as, ru [cm ² /m]	Lkn
R46	43.80	17.46	0.73	0.02	-0.43	1.16	0.11	4
R47	39.25	13.17	2.08	0.51	2.05	4.12	0.41	5
R48	23.06	10.54	-1.50	-3.25	-4.17	2.67	0.27	2
R49	23.06	10.20	0.44	-0.52	-1.11	1.56	0.15	9
R50	17.70	14.99	19.44	4.17	8.41	27.85	2.85	9
R51	25.80	17.72	44.98	2.88	-8.42	53.40	5.52	1
R52	44.79	12.60	1.30	0.83	-3.78	5.08	0.51	2
R53	43.20	10.28	15.34	0.24	0.01	15.35	1.57	2
R54	41.32	10.24	-3.15	-0.09	-12.59	9.43	0.95	1
R55	40.80	1.78	-1.85	0.01	-3.57	1.72	0.17	7
R56	37.20	1.78	19.05	0.79	0.33	19.38	1.96	9
R57	28.50	1.78	8.45	0.26	-3.32	11.77	1.21	7
R58	27.00	1.78	-1.23	2.54	9.01	7.78	0.79	7
R59	23.30	2.89	7.89	-53.42	18.93	14.60	1.47	1
R60	11.43	1.66	18.02	1.67	17.72	35.75	3.69	2
R61	1.70	3.00	5.25	-1.90	-3.70	8.95	0.90	2

Erforderliche untere Bewehrung $a_{s,su}$ [cm²/m]

Isolinienstufen = $0.75 \text{ cm}^2/\text{m}$

Bew.-Abstand: $d', su = 3.0 \text{ cm}$

Punkt	x	y [m]	mrEd	msEd	mrsEd	mEd [kNm/m]	as,su [cm ² /m]	Lkn
C-1-3			-8.48	1.51	-1.39	1.74	0.17	10
C-1-12			1.14	-5.69	-7.30	1.61	0.16	7
C-1-4			-4.81	0.95	3.91	4.12	0.41	7
C-1-5			-9.13	8.81	1.02	8.92	0.90	7
C-1-6			-9.71	11.70	-4.37	13.67	1.37	7
C-1-13			-10.53	11.33	-7.22	16.28	1.62	1
F01	38.10	12.54	2.32	6.75	4.07	10.82	1.08	2
F02	6.83	4.00	9.71	7.46	10.70	18.16	1.91	2
F03	25.20	17.61	17.38	0.35	5.43	5.78	0.58	5
F04	6.60	0.83	19.54	0.47	-4.85	5.32	0.54	2
F05	25.96	17.40	24.24	0.50	5.54	6.04	0.60	5
F06	38.40	12.62	2.68	8.81	2.89	11.70	1.21	8
F07	27.90	12.62	-3.28	1.22	-2.67	3.39	0.33	7
F08	27.00	12.62	-1.22	0.99	5.21	6.20	0.63	7
F09	24.00	12.62	2.09	4.07	-2.97	7.04	0.71	2
F10	36.45	16.20	9.46	4.25	4.58	8.83	0.90	4
F11	37.50	6.45	1.79	5.21	-1.82	7.03	0.71	10
F12	19.87	8.91	10.84	10.63	2.78	13.42	1.37	7
F13	22.80	3.15	-5.99	0.38	17.33	17.71	1.72	1
F14	11.10	1.86	2.46	8.25	6.76	15.01	1.57	2
F15	41.06	9.90	-2.98	-1.08	-6.74	5.66	0.57	1
F16	22.80	17.35	-7.70	1.07	-3.13	2.34	0.24	1
F17	33.60	17.40	8.84	0.13	3.46	3.59	0.36	9
F18	25.20	17.40	18.87	0.61	-14.40	15.01	1.57	9
F19	39.00	17.10	-0.28	0.88	-9.58	10.46	1.06	5
F20	33.90	17.10	3.28	1.58	1.83	3.42	0.35	5
F21	31.50	17.10	0.38	-0.11	-2.19	2.08	0.20	7
F22	24.90	17.10	9.11	3.71	-7.61	11.32	1.08	5
F23	24.30	16.54	0.34	5.72	-2.65	8.37	0.84	1
F24	34.20	16.20	-1.28	1.21	-1.16	2.27	0.23	5

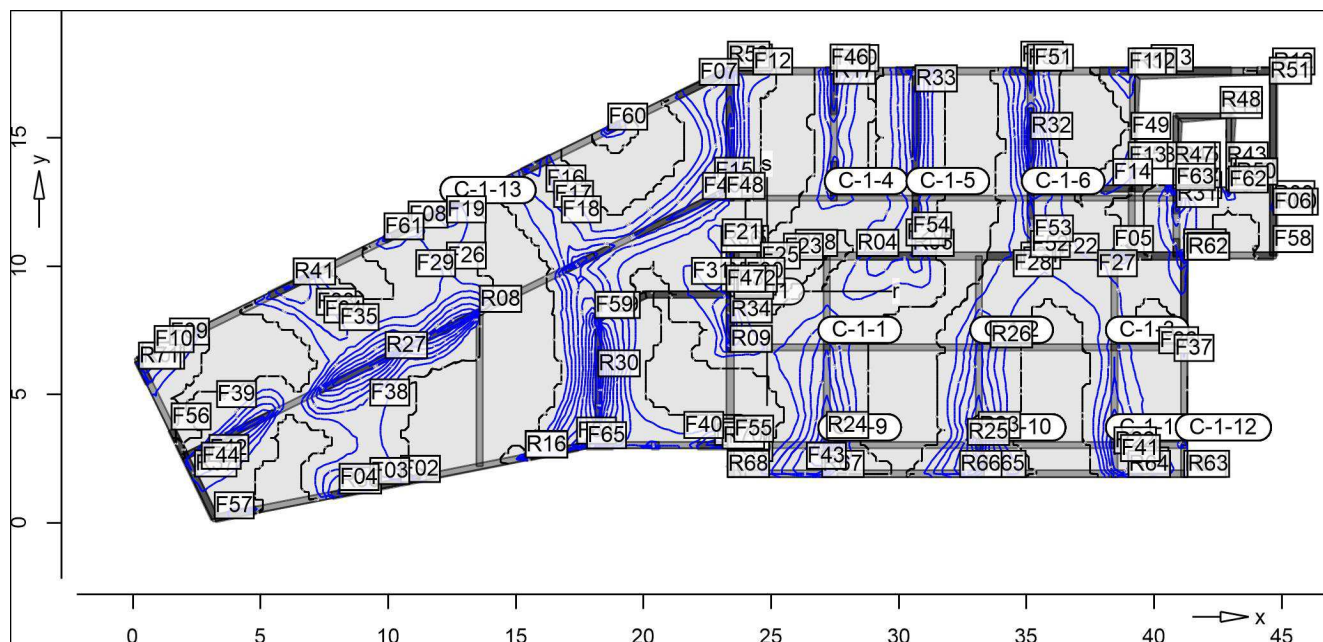
Punkt	x	y [m]	mrEd	msEd	mrsEd	mEd [kNm/m]	as,su [cm ² /m]	Lkn
F25	37.20	16.03	15.87	6.66	2.91	9.57	0.97	5
F26	22.20	15.90	-5.04	6.88	-5.56	12.43	1.21	1
F27	28.50	15.60	-0.01	1.89	-1.58	3.47	0.35	5
F28	27.00	15.30	-3.20	5.55	2.37	7.31	0.74	5
F29	38.10	14.95	14.79	7.48	2.61	10.09	1.01	5
F30	27.30	15.00	-8.47	6.61	1.48	6.87	0.68	5
F31	24.90	14.98	11.37	3.71	-1.65	5.37	0.54	5
F32	21.60	15.00	3.25	12.80	-1.14	13.94	1.47	1
F33	18.60	15.00	-2.83	11.46	3.63	15.09	1.57	8
F34	21.90	14.59	0.10	13.52	0.31	13.83	1.47	1
F35	18.30	14.70	6.76	11.29	5.12	16.41	1.62	2
F36	28.20	14.40	-2.27	2.32	2.30	4.63	0.46	5
F37	21.60	14.40	2.69	14.29	0.63	14.92	1.57	1
F38	21.30	14.40	5.45	15.03	-0.10	15.13	1.57	1
F39	38.70	14.10	5.10	1.88	8.05	9.93	1.00	5
F40	21.90	14.10	-1.21	11.92	2.98	14.89	1.57	1
F41	19.80	14.10	5.75	16.48	-4.93	21.41	2.22	1
F42	19.20	14.10	5.34	16.85	-4.44	21.29	2.22	1
F43	39.00	13.80	1.49	0.28	9.51	9.79	0.99	5
F44	31.80	13.50	6.56	-0.14	-3.30	3.16	0.32	5
F45	22.20	13.50	-6.58	7.17	7.48	14.66	1.47	1
F46	18.90	13.50	6.94	15.42	-4.86	20.28	2.13	5
F47	34.20	13.20	1.37	0.96	3.00	3.96	0.40	1
F48	31.50	13.20	1.40	-0.10	-3.57	3.46	0.35	9
F49	29.70	13.20	-2.85	1.76	3.00	4.76	0.47	9
F50	22.50	13.20	-9.93	3.25	9.86	13.05	1.37	1
F51	18.60	13.20	7.56	13.87	-5.63	19.50	1.96	5
F52	44.53	12.60	2.47	-0.56	-6.52	5.96	0.60	2
F53	16.80	12.60	5.48	12.47	-14.36	26.83	2.79	5
F54	41.01	12.30	-14.32	7.09	6.79	10.31	1.04	2
F55	39.30	12.30	7.00	5.19	3.78	8.97	0.90	2
F56	16.20	12.30	4.79	13.16	-14.63	27.79	2.85	5
F57	43.50	12.00	6.98	2.09	-5.01	7.10	0.71	4
F58	40.50	12.00	-4.52	4.53	5.40	9.94	1.00	2
F59	28.50	12.00	-1.74	2.67	-2.03	4.70	0.47	3
F60	26.70	12.00	1.78	3.59	4.88	8.47	0.85	2
F61	24.00	12.00	2.91	5.11	-2.80	7.91	0.80	2
F62	15.90	12.00	5.97	12.94	-13.73	26.67	2.79	5
F63	23.70	11.70	1.38	4.32	-3.37	7.69	0.77	4
F64	41.70	11.40	-2.33	6.30	3.57	9.87	0.99	2
F65	23.40	11.40	-0.27	3.58	-4.09	7.67	0.77	4
F66	14.40	11.40	9.80	13.49	-7.35	20.84	2.13	5
F67	23.10	11.10	-1.46	2.45	-5.24	7.68	0.77	4
F68	13.80	11.10	5.78	14.36	-7.25	21.61	2.22	5
F69	13.20	11.10	0.99	15.13	-7.69	22.82	2.32	5
F70	43.80	10.80	7.71	1.69	-3.12	4.81	0.49	1
F71	22.50	10.80	0.44	1.86	-4.03	5.89	0.59	4
F72	12.90	10.80	-1.18	16.97	-7.15	24.12	2.39	1
F73	41.70	10.54	-3.36	3.46	4.27	7.73	0.77	7
F74	21.90	10.50	-0.40	4.00	-3.23	7.23	0.74	2
F75	12.00	10.50	-3.61	18.52	-5.95	24.47	2.51	1
F76	9.60	10.50	-0.09	12.62	4.08	16.70	1.62	1
F77	21.60	10.20	-0.68	3.15	-3.45	6.60	0.67	3
F78	11.20	9.90	-0.46	19.05	-4.18	23.23	2.32	1
F79	10.80	9.90	-1.12	18.89	-3.76	22.65	2.32	1
F80	9.90	9.30	2.09	15.59	-2.73	18.32	1.91	1
F81	9.30	9.00	4.31	13.13	-4.16	17.29	1.72	1
F82	31.80	8.78	7.53	10.59	-7.62	18.21	1.91	1
F83	31.20	8.70	5.16	11.38	-7.45	18.83	1.91	1
F84	29.10	8.70	-0.32	10.38	4.65	15.03	1.57	1

Punkt	x	y [m]	mrEd	msEd	mrsEd	mEd [kNm/m]	as,su [cm ² /m]	Lkn
F85	28.20	8.70	0.25	8.65	6.59	15.24	1.57	1
F86	37.20	8.40	1.29	7.79	-4.84	12.63	1.21	1
F87	34.80	8.40	2.22	10.63	6.68	17.31	1.72	1
F88	34.20	8.40	-0.51	9.99	7.98	17.97	1.72	1
F89	30.90	8.40	4.70	12.33	-5.96	18.29	1.91	1
F90	28.80	8.40	0.79	10.79	5.23	16.02	1.62	1
F91	17.40	8.51	-10.95	4.88	-10.18	14.34	1.47	2
F92	29.40	8.10	2.83	11.71	2.29	14.00	1.47	1
F93	26.40	8.10	-0.32	4.53	-3.56	8.09	0.82	1
F94	4.80	8.10	4.68	12.91	5.31	18.21	1.91	1
F95	35.40	7.80	6.98	9.84	4.02	13.87	1.47	1
F96	6.90	7.80	3.22	14.65	-12.58	27.23	2.79	1
F97	39.60	7.50	1.29	1.91	0.86	2.77	0.28	7
F98	16.80	7.50	4.74	3.34	-8.62	11.95	1.21	4
F99	16.20	7.41	15.44	5.29	-8.01	13.30	1.37	4
Fa0	4.50	7.50	10.69	14.19	2.88	17.07	1.72	1
Fa1	39.90	7.20	1.77	0.57	2.06	2.63	0.27	7
Fa2	4.80	7.20	9.53	16.74	0.55	17.29	1.72	1
Fa3	20.10	6.90	6.72	3.74	6.89	10.63	1.08	5
Fa4	5.10	6.90	9.13	17.28	-0.84	18.13	1.91	5
Fa5	4.80	6.60	9.87	17.00	-0.56	17.56	1.72	1
Fa6	37.20	6.30	5.70	5.49	-1.43	6.92	0.69	8
Fa7	31.20	6.30	7.00	1.67	-2.38	4.06	0.41	9
Fa8	29.10	6.30	6.30	2.20	0.93	3.13	0.32	8
Fa9	3.90	6.30	9.49	16.27	-4.18	20.45	2.13	1
Fb0	37.50	6.00	2.36	5.50	-1.54	7.04	0.71	2
Fb1	28.80	6.00	4.44	2.07	1.09	3.15	0.32	2
Fb2	24.30	6.00	4.79	11.18	-6.35	17.53	1.72	1
Fb3	3.30	6.00	8.10	16.30	-6.60	22.90	2.32	1
Fb4	2.70	6.00	5.16	15.94	-6.41	22.36	2.32	5
Fb5	38.70	5.70	-11.14	5.54	-0.15	5.54	0.56	1
Fb6	23.70	5.70	5.95	16.93	-2.32	19.25	1.96	1
Fb7	22.50	5.10	5.92	20.89	4.07	24.96	2.51	1
Fb8	13.80	5.10	12.81	22.74	-8.29	31.03	3.22	4
Fb9	22.80	4.80	6.54	20.38	4.21	24.59	2.51	1
Fc0	12.90	4.80	9.54	25.49	-8.64	34.13	3.53	4
Fc1	5.70	4.80	7.09	-0.75	15.70	14.95	1.57	2
Fc2	6.50	4.50	15.10	-0.52	16.55	16.03	1.62	2
Fc3	21.60	4.20	3.02	15.31	-1.72	17.03	1.72	1
Fc4	21.00	4.20	4.43	12.69	-4.52	17.21	1.72	5
Fc5	20.70	4.20	4.51	11.40	-5.76	17.16	1.72	1
Fc6	12.90	4.20	9.15	26.36	-7.75	34.11	3.53	4
Fc7	11.70	4.20	6.33	27.97	-8.24	36.21	3.70	4
Fc8	20.40	3.90	3.39	8.49	-8.06	16.55	1.62	1
Fc9	16.50	3.90	-0.11	13.52	9.09	22.61	2.32	4
Fd0	15.30	3.90	9.99	16.97	1.40	18.37	1.91	4
Fd1	11.10	3.90	4.11	29.40	-7.88	37.28	3.82	2
Fd2	10.80	3.90	2.95	29.89	-7.87	37.76	3.82	2
Fd3	7.50	3.90	0.52	17.39	4.94	22.33	2.32	2
Fd4	20.10	3.60	2.53	5.43	-9.95	15.38	1.57	1
Fd5	16.80	3.60	-7.28	11.62	12.98	24.60	2.51	4
Fd6	10.50	3.60	1.90	31.01	-7.38	38.40	3.96	2
Fd7	9.00	3.00	-3.82	30.77	-7.97	38.74	3.96	2
Fd8	5.10	1.80	5.91	8.79	-2.91	11.70	1.21	4
Fd9	3.00	1.80	-4.91	5.94	4.09	9.35	0.93	2
Fe0	4.50	1.50	0.20	10.62	-0.24	10.86	1.08	2
Fe1	4.80	0.90	3.60	7.13	2.67	9.80	0.99	9
Fe2	23.56	14.97	-23.57	3.22	-1.73	3.35	0.33	1
Fe3	0.40	6.26	-12.29	13.95	9.31	21.00	2.13	1
Fe4	44.52	13.61	0.14	0.79	0.29	1.08	0.11	7

Punkt	x	y [m]	mrEd	msEd	mrsEd	mEd [kNm/m]	as,su [cm ² /m]	Lkn
Fe5	40.75	13.17	-15.98	-6.16	-11.72	2.43	0.24	2
Fe6	29.10	17.61	6.58	0.60	-2.00	2.60	0.27	8
Fe7	36.45	16.03	9.52	4.77	4.07	8.84	0.90	5
Fe8	41.21	6.45	0.04	3.29	3.23	6.52	0.66	7
Fe9	36.88	1.89	18.86	1.07	2.87	3.94	0.40	1
Ff0	3.17	5.65	8.11	16.65	-6.80	23.45	2.39	1
Ff1	20.42	16.19	9.90	4.46	5.60	10.05	1.01	7
Ff2	31.87	17.61	11.77	2.44	-2.07	4.51	0.45	7
Ff3	4.01	8.19	15.52	7.94	9.55	17.50	1.72	1
Ff4	8.51	10.38	13.04	5.40	6.42	11.82	1.21	1
Ff5	26.87	17.61	-0.79	0.59	1.01	1.60	0.16	7
Ff6	20.09	9.00	6.19	5.56	2.23	7.80	0.79	7
Ff7	23.26	6.65	-7.31	6.97	-3.87	9.02	0.90	1
Ff8	44.68	10.39	-0.36	5.78	0.75	6.54	0.66	5
Ff9	44.68	17.61	0.74	0.63	-0.47	1.10	0.11	2
Fg0	28.38	17.46	-3.69	-0.83	-3.71	2.88	0.29	7
Fg1	23.34	17.61	-20.63	-13.18	-21.46	8.28	0.83	1
Fg2	41.33	12.86	-10.94	2.36	-0.18	2.36	0.24	4
R01	41.18	1.91	-0.37	-0.88	-6.16	5.28	0.53	7
R02	40.76	12.64	-5.45	7.23	6.27	13.50	1.37	2
R03	41.70	12.96	-0.06	-0.17	1.70	1.53	0.15	4
R04	41.18	10.39	-21.98	-0.20	-41.50	41.31	4.23	2
R05	0.23	6.32	5.35	17.34	3.64	20.98	2.13	1
R06	13.59	4.80	10.91	24.36	-8.02	32.38	3.26	4
R07	23.41	5.10	10.79	19.83	2.53	22.35	2.32	1
R08	23.43	1.78	0.30	-0.17	0.43	0.26	0.03	7
R09	26.70	1.91	-4.44	1.27	18.51	19.78	1.96	1
R10	44.66	13.17	2.03	-0.43	-2.16	1.73	0.17	4
R11	44.53	17.59	0.22	-0.00	-0.89	0.89	0.09	4
R12	15.39	2.56	0.69	39.10	79.85	118.95	13.16	2
R13	41.18	10.41	-17.36	0.71	-24.02	24.73	2.51	9
R14	15.39	2.54	15.06	35.58	50.12	85.70	9.10	2
R15	39.12	12.54	8.46	6.94	2.29	9.23	0.93	8
R16	27.45	15.00	-10.92	6.68	1.33	6.84	0.68	5
R17	23.41	17.59	-2.59	0.49	14.62	15.11	1.57	2
R18	39.16	17.59	0.66	2.84	-6.40	9.25	0.93	5
R19	40.20	13.03	3.35	0.88	3.76	4.63	0.46	2
R20	41.18	5.40	-0.83	6.78	2.08	8.87	0.90	9
R21	38.45	8.70	-4.50	4.11	-4.54	8.65	0.87	1
R22	33.13	8.70	-2.32	7.06	2.67	9.73	0.98	10
R23	27.18	9.00	-0.37	5.08	2.36	7.44	0.76	5
R24	23.56	6.83	-2.44	-0.02	-6.20	6.18	0.63	1
R25	6.40	4.71	16.08	1.76	13.49	15.25	1.57	10
R26	20.09	8.88	4.69	-1.30	5.89	4.58	0.46	7
R27	19.20	8.45	-4.82	-3.50	5.77	2.27	0.23	1
R28	18.23	3.00	-11.23	3.57	3.64	4.75	0.47	2
R29	40.88	11.70	-12.18	5.80	4.88	7.75	0.77	2
R30	35.17	16.50	-21.72	10.97	0.24	10.98	1.08	5
R31	30.65	12.52	-9.48	5.28	1.68	5.58	0.56	10
R32	23.10	3.03	4.08	-6.79	27.11	20.32	2.13	1
R33	11.46	1.79	112.67	-28.25	-66.98	38.73	3.96	2
R34	3.02	0.60	1.10	7.74	-1.15	8.89	0.90	1
R35	44.66	12.29	0.08	-1.16	-5.96	4.80	0.49	2
R36	23.56	17.59	-4.31	2.09	-7.10	9.19	0.93	1
R37	4.20	8.26	12.10	6.77	9.53	16.31	1.62	1
R38	41.33	13.06	-4.08	1.17	3.41	4.02	0.40	2
R39	40.96	15.60	0.04	0.42	-0.04	0.46	0.05	7
R40	40.44	13.15	2.78	1.55	1.37	2.92	0.29	2
R41	40.76	13.19	0.39	-0.41	-0.99	0.58	0.06	2
R42	44.10	13.17	6.17	0.18	-4.57	4.75	0.47	4

Punkt	x	y [m]	mrEd	msEd	mrsEd	mEd [kNm/m]	as,su [cm ² /m]	Lkn
R43	44.53	17.46	0.45	0.22	-0.97	1.19	0.12	4
R44	39.25	17.46	-4.90	0.10	-3.45	2.53	0.25	5
R45	39.25	13.50	0.50	2.08	1.71	3.79	0.38	5
R46	23.06	10.54	-1.50	-3.25	-4.17	0.92	0.09	2
R47	23.06	10.20	0.55	1.30	-0.44	1.74	0.17	6
R48	0.06	6.38	-0.90	16.33	3.03	19.35	1.96	1
R49	25.80	17.72	45.18	2.93	-8.54	11.47	1.08	9
R50	44.79	12.60	1.30	0.83	-3.78	4.61	0.46	2
R51	44.63	10.28	-1.44	5.14	-0.85	5.64	0.57	7
R52	41.32	10.24	-1.76	2.79	-10.54	13.33	1.37	3
R53	38.70	1.78	-5.78	-0.50	-5.27	4.30	0.43	7
R54	33.60	1.78	0.41	0.95	-3.58	4.53	0.45	9
R55	28.50	1.78	8.60	0.26	-3.57	3.83	0.39	2
R56	27.00	1.78	-1.77	2.59	9.21	11.80	1.21	9
R57	11.43	1.66	18.02	1.67	17.72	19.39	1.96	2
R58	0.24	6.00	-5.84	5.66	4.37	8.93	0.90	1

Erforderliche obere Bewehrung $a_{s,ro}$ [cm^2/m]



Isolinienstufen = 0.50 cm^2/m

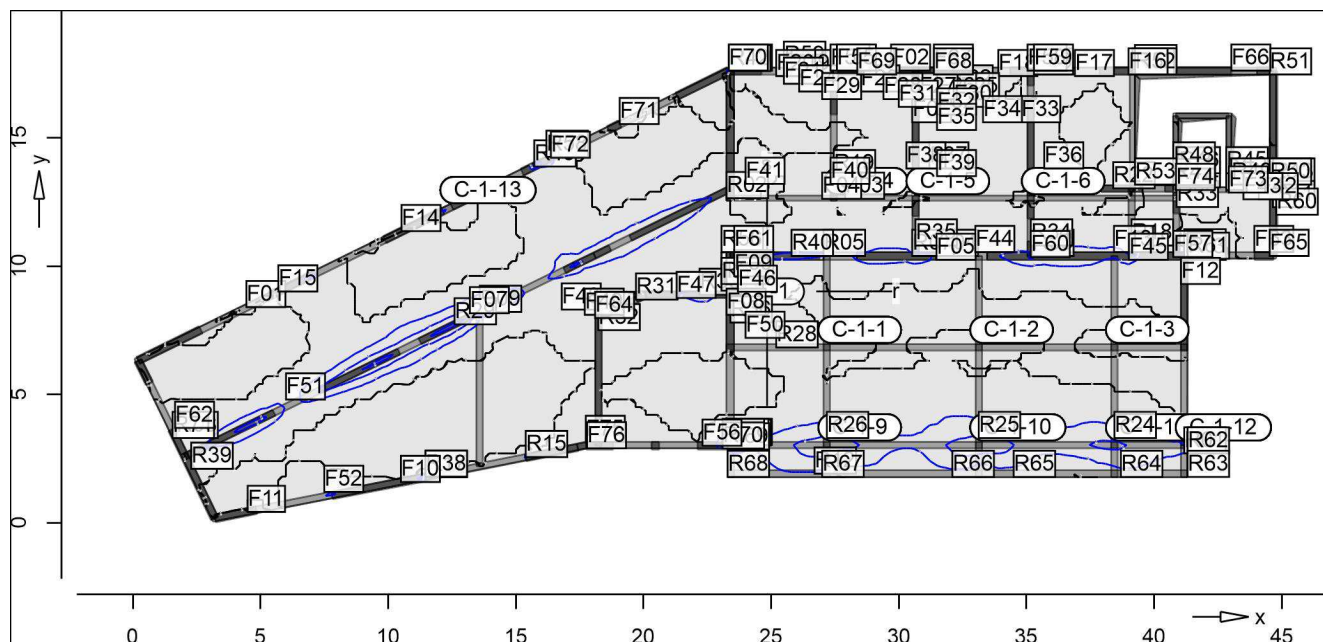
Bew.-Abstand: $d',ro = 3.0 \text{ cm}$

Punkt	x	y [m]	mrEd	msEd	mrsEd	mEd [kNm/m]	$a_{s,ro}$ [cm^2/m]	Lkn
C-1-1			-18.05	-3.06	-2.16	-20.21	2.05	5
C-1-9			-31.17	-43.29	5.70	-36.88	3.75	1
C-1-2			-20.67	-4.33	1.57	-22.24	2.19	5
C-1-10			-33.65	-48.93	2.92	-36.57	3.75	1
C-1-3			-10.75	-1.34	-2.17	-12.92	1.34	5
C-1-11			-22.92	-32.83	-7.25	-30.17	3.03	1
C-1-12			-0.22	-12.63	-11.08	-11.30	1.11	7
C-1-4			-6.92	-2.81	3.79	-10.71	1.11	4
C-1-5			-11.64	6.62	0.97	-11.79	1.21	4
C-1-6			-13.37	6.81	-4.69	-16.60	1.67	4
C-1-13			-18.76	1.30	6.75	-25.51	2.60	2
F01	23.56	8.73	-10.55	-9.32	2.53	-13.08	1.34	1
F02	10.50	1.59	-7.93	-1.97	-2.67	-10.60	1.06	2
F03	9.30	1.51	-8.05	2.68	-5.90	-13.95	1.50	1
F04	8.10	1.27	-6.52	-0.08	-13.75	-20.27	2.05	9
F05	38.43	10.54	-4.32	-31.70	-2.85	-7.17	0.72	1
F06	44.68	12.00	-1.24	-2.58	-3.66	-4.89	0.49	4
F07	22.20	17.06	-8.16	-2.85	-4.77	-12.93	1.34	1
F08	10.80	11.50	-6.11	0.03	-0.39	-6.50	0.66	2
F09	1.45	6.94	-13.45	2.29	1.83	-14.91	1.61	1
F10	0.85	6.64	-13.47	4.56	5.28	-18.76	1.89	5
F11	39.00	17.46	-1.52	-0.25	-10.73	-12.26	1.21	5
F12	24.30	17.46	-5.03	1.21	-3.41	-8.43	0.85	7
F13	39.00	13.80	1.49	0.28	9.51	-8.02	0.81	5
F14	38.40	13.15	-0.18	-8.42	7.04	-7.23	0.73	1
F15	22.80	13.20	-11.58	1.33	10.21	-21.79	2.19	2
F16	16.20	12.90	3.62	10.79	-14.72	-11.10	1.11	1
F17	16.50	12.30	4.73	12.87	-14.88	-10.14	1.02	1
F18	16.80	11.70	2.44	9.66	-13.12	-10.68	1.11	1
F19	12.30	11.70	-8.57	4.97	-4.00	-11.79	1.21	2

Punkt	x	y [m]	mrEd	msEd	mrsEd	mEd [kNm/m]	as,ro [cm ² /m]	Lkn
F20	30.30	10.80	-11.24	-12.70	2.22	-13.45	1.34	2
F21	23.10	10.80	-2.06	1.05	-5.68	-7.75	0.77	4
F22	36.30	10.24	-4.62	-24.48	-2.40	-7.03	0.71	8
F23	25.50	10.24	-1.51	-16.35	3.51	-5.02	0.51	2
F24	34.80	9.90	-5.38	-11.27	4.16	-9.54	0.96	2
F25	24.60	9.90	0.07	-7.94	4.87	-4.80	0.48	2
F26	12.30	9.90	-3.84	16.23	-4.64	-5.17	0.52	2
F27	37.80	9.60	-1.59	-2.62	-6.32	-7.92	0.80	1
F28	34.50	9.60	-3.03	-1.56	6.73	-9.75	0.98	2
F29	11.10	9.60	-0.73	17.33	-4.12	-1.71	0.18	5
F30	24.00	9.30	-2.37	-6.20	4.40	-6.77	0.68	2
F31	21.90	9.30	-3.72	-9.26	-2.21	-5.93	0.59	9
F32	23.70	9.00	-10.68	-10.98	3.13	-13.81	1.50	2
F33	7.20	8.10	2.65	12.83	-14.35	-11.70	1.21	5
F34	7.50	7.80	2.47	12.12	-13.19	-10.72	1.11	5
F35	8.10	7.50	-0.78	7.74	-9.63	-10.40	1.05	1
F36	40.20	6.60	1.34	1.96	3.05	-1.71	0.18	7
F37	40.80	6.30	0.78	3.89	3.87	-3.07	0.30	7
F38	9.30	4.57	-8.30	17.69	-2.77	-8.73	0.88	1
F39	3.30	4.50	3.35	2.64	-4.95	-1.59	0.16	8
F40	21.60	3.30	-3.12	3.67	-4.27	-7.39	0.75	10
F41	38.70	2.40	-13.79	-13.49	-13.91	-27.70	2.81	9
F42	3.00	2.40	-6.20	0.60	5.75	-11.94	1.21	2
F43	26.40	2.10	-4.37	-5.62	19.86	-24.23	2.43	9
F44	2.70	2.10	-5.51	3.68	5.46	-10.96	1.11	2
F45	22.33	12.61	-11.65	-8.47	11.80	-23.45	2.43	4
F46	27.33	17.61	-18.68	-2.00	-1.65	-20.33	2.05	9
F47	23.25	9.00	-8.57	-7.45	-2.81	-11.38	1.11	1
F48	23.22	12.62	-14.77	-3.15	5.89	-20.65	2.05	4
F49	39.11	14.95	0.20	0.93	4.15	-3.95	0.40	2
F50	35.05	17.61	-19.44	-1.30	-3.03	-22.47	2.29	1
F51	35.30	17.61	-17.46	-0.20	2.69	-20.14	1.94	2
F52	35.17	10.35	-9.55	-59.84	-5.16	-14.71	1.50	2
F53	35.30	10.95	-8.25	-8.48	-2.62	-10.87	1.11	2
F54	30.53	11.07	-11.97	-7.76	2.91	-14.88	1.61	2
F55	23.56	3.15	13.07	-21.10	20.68	-7.61	0.76	9
F56	1.52	3.63	1.39	-2.12	-2.99	-1.60	0.16	4
F57	3.21	0.17	-3.24	2.23	1.67	-4.50	0.45	7
F58	44.68	10.54	-0.57	0.83	-1.82	-2.39	0.24	7
F59	18.11	7.97	-43.55	-5.61	-5.02	-48.58	4.98	2
F60	18.62	15.31	-14.59	5.12	6.48	-21.07	2.05	8
F61	9.86	11.04	-7.42	5.11	5.03	-12.37	1.21	1
F62	42.93	12.86	-17.66	-20.16	-0.46	-18.12	1.89	2
F63	40.86	12.96	-38.86	-15.69	3.00	-41.85	4.33	2
F64	17.40	3.08	-15.22	5.38	21.01	-36.23	3.75	2
F65	17.79	2.90	-15.73	0.63	8.16	-23.89	2.43	2
R01	41.18	1.78	-4.58	-1.18	-5.57	-10.15	1.02	7
R02	41.01	12.64	-24.44	-5.74	0.32	-24.76	2.50	2
R03	42.83	12.96	-3.93	-8.17	-4.87	-8.80	0.88	2
R04	28.36	10.39	0.05	-19.29	2.44	-2.39	0.24	4
R05	41.18	10.39	-21.98	-0.20	-41.50	-63.48	6.60	2
R06	30.53	10.39	-11.47	-30.75	-5.06	-16.53	1.67	1
R07	0.38	6.00	-11.75	11.21	7.70	-17.04	1.74	1
R08	13.59	8.21	2.32	-38.18	9.36	-7.04	0.71	4
R09	23.41	6.65	-4.45	4.92	-4.07	-7.81	0.79	5
R10	23.43	2.40	1.11	-7.78	-2.34	-1.23	0.12	4
R11	39.00	1.91	-9.97	-0.38	-13.41	-23.38	2.43	9
R12	44.66	17.46	0.10	-0.03	-0.88	-0.78	0.08	2
R13	39.90	17.59	-3.91	0.03	0.04	-3.95	0.40	1
R14	15.39	2.56	0.69	39.10	79.85	-79.16	8.33	2

Punkt	x	y [m]	mrEd	msEd	mrsEd	mEd [kNm/m]	as,ro [cm ² /m]	Lkn
R15	41.18	10.41	-18.87	-0.26	-24.62	-43.48	4.43	2
R16	15.39	2.54	15.06	35.58	50.12	-35.06	3.65	2
R17	27.45	17.10	-23.99	-2.85	1.09	-25.08	2.50	1
R18	23.41	17.61	-33.19	-3.26	12.32	-45.51	4.61	2
R19	39.16	17.46	-2.97	0.04	-7.27	-10.24	1.03	5
R20	40.75	13.03	-16.79	-3.92	0.50	-17.29	1.74	2
R21	41.18	10.24	-14.83	-2.53	-7.12	-21.95	2.19	2
R22	38.45	2.70	-20.81	-25.39	-9.10	-29.91	3.03	1
R23	33.13	3.30	-35.58	-42.77	0.94	-36.52	3.75	1
R24	27.18	3.30	-31.86	-37.79	4.35	-36.21	3.75	1
R25	32.70	3.03	-20.18	-49.37	4.27	-24.44	2.50	1
R26	33.60	6.83	-10.90	-5.08	3.19	-14.09	1.50	5
R27	9.90	6.41	-21.10	-43.38	18.29	-39.39	4.03	2
R28	23.56	8.88	-11.22	-13.23	1.04	-12.26	1.21	2
R29	18.23	7.97	-36.63	-5.61	-0.26	-36.88	3.75	2
R30	18.23	5.70	-52.80	1.31	1.02	-53.60	5.50	2
R31	40.88	12.30	-15.46	4.26	7.16	-22.62	2.29	2
R32	35.17	14.95	-37.60	-2.39	-1.17	-38.77	3.92	4
R33	30.65	16.80	-25.74	-1.62	-1.02	-26.75	2.74	1
R34	23.41	7.80	-20.66	-12.52	-3.35	-24.01	2.43	5
R35	22.80	3.03	-9.74	-1.59	15.33	-25.06	2.50	1
R36	8.10	1.14	-9.28	-3.74	-11.24	-20.53	2.05	2
R37	2.43	1.80	-5.35	3.65	4.66	-10.01	1.01	2
R38	25.96	10.39	-1.99	-20.49	3.90	-5.89	0.59	2
R39	44.66	12.29	0.08	-1.16	-5.96	-5.88	0.59	2
R40	27.58	17.59	-20.72	0.57	4.79	-25.51	2.60	1
R41	6.30	9.28	-11.18	-7.19	-9.15	-20.33	2.05	1
R42	40.96	13.06	-20.70	-9.57	9.07	-29.77	3.03	2
R43	42.83	13.80	-0.18	-2.10	0.52	-0.70	0.07	2
R44	42.60	15.76	-0.32	0.03	0.01	-0.33	0.04	10
R45	40.96	13.80	-0.68	-2.23	-1.57	-2.25	0.23	2
R46	40.76	13.15	-27.80	-6.92	-14.42	-42.21	4.33	2
R47	40.76	13.80	-0.17	-2.58	-1.07	-1.24	0.12	2
R48	42.60	15.96	-0.32	-0.02	0.01	-0.32	0.04	8
R49	43.03	13.17	-5.55	-9.20	3.98	-9.53	0.96	2
R50	43.20	13.17	-5.11	-1.04	1.95	-7.06	0.71	4
R51	44.53	17.10	-0.10	-0.29	-0.35	-0.45	0.05	2
R52	39.25	17.46	-4.90	0.10	-3.45	-8.35	0.83	5
R53	39.25	13.80	-0.20	0.23	0.90	-1.09	0.11	4
R54	23.26	9.04	-6.71	-8.06	-4.00	-10.71	1.11	2
R55	23.26	10.54	-5.18	-1.87	-0.32	-5.50	0.55	4
R56	23.06	10.54	-1.50	-3.25	-4.17	-5.67	0.57	2
R57	23.06	9.30	0.18	-11.11	1.53	-1.34	0.13	4
R58	23.31	17.72	-32.49	-1.47	-6.87	-39.36	4.03	1
R59	34.80	17.72	-19.14	-0.08	-1.11	-20.26	2.05	5
R60	44.79	12.00	-1.28	-3.32	-3.61	-4.90	0.49	2
R61	41.32	10.28	-12.43	-3.17	-10.14	-22.57	2.29	1
R62	41.32	10.24	-3.15	-0.09	-12.59	-15.74	1.61	1
R63	41.31	1.78	-0.65	-0.76	-0.39	-1.04	0.10	7
R64	39.00	1.78	-10.31	-0.09	-3.96	-14.27	1.50	9
R65	33.34	1.78	-4.56	1.06	-2.09	-6.66	0.66	5
R66	32.40	1.78	-7.50	-0.02	2.87	-10.37	1.05	1
R67	27.00	1.78	-1.77	2.59	9.21	-10.97	1.11	9
R68	23.30	1.78	-0.50	-0.51	0.16	-0.67	0.07	7
R69	23.30	2.85	-11.09	-76.11	5.97	-17.07	1.74	1
R70	23.10	2.89	-6.07	-22.53	28.13	-34.20	3.56	9
R71	0.24	6.00	-5.84	5.66	4.37	-9.21	0.92	1

Erforderliche obere Bewehrung $a_{s,so}$ [cm^2/m]



Isolinienstufen = 2.00 cm^2/m

Bew.-Abstand: $d',so = 3.0 \text{ cm}$

Punkt	x	y [m]	mrEd	msEd	mrsEd	mEd [kNm/m]	$a_{s,so}$ [cm^2/m]	Lkn
C-1-1			-15.32	-4.42	-3.08	-7.49	0.75	5
C-1-9			-26.99	-46.86	7.11	-53.96	5.50	8
C-1-2			-18.23	-5.51	2.45	-7.95	0.80	4
C-1-10			-33.75	-53.56	1.79	-55.35	5.72	8
C-1-3			-10.75	-1.34	-2.17	-3.50	0.35	5
C-1-11			-22.17	-36.06	-7.89	-43.96	4.51	8
C-1-12			-1.73	-16.81	-7.95	-24.76	2.50	7
C-1-4			-6.92	-2.81	3.79	-6.60	0.66	4
C-1-13			-2.63	-17.86	-6.16	-24.02	2.43	2
F01	4.45	8.40	8.78	5.23	8.04	-2.12	0.20	1
F02	29.70	17.61	-4.03	-0.84	-1.32	-2.16	0.21	5
F03	27.90	12.62	-4.27	-1.92	-2.67	-4.59	0.47	4
F04	27.00	12.62	-1.95	-1.76	5.69	-7.45	0.75	4
F05	31.48	10.24	5.85	-11.92	-5.59	-17.27	1.74	2
F06	30.53	15.60	-19.44	-1.94	-1.18	-3.12	0.32	7
F07	13.20	8.16	-11.36	-38.85	19.27	-58.12	6.01	4
F08	23.26	8.10	-13.98	-12.21	-4.45	-16.65	1.67	1
F09	23.56	9.60	-1.52	-6.05	2.63	-8.68	0.88	4
F10	10.50	1.59	-7.76	-1.97	-2.68	-4.65	0.47	5
F11	4.50	0.42	-3.67	-1.32	-1.68	-3.00	0.30	4
F12	41.06	9.30	-1.15	-2.13	-6.30	-8.43	0.85	2
F13	38.43	10.54	-4.50	-33.13	-2.65	-35.78	3.65	2
F14	10.52	11.36	-5.45	-0.21	-0.90	-1.10	0.11	4
F15	5.70	9.01	-8.80	-5.60	-6.12	-11.73	1.21	2
F16	39.00	17.46	-1.52	-0.25	-10.73	-10.99	1.11	5
F17	36.90	17.40	12.48	-0.46	5.52	-2.90	0.29	10
F18	33.90	17.40	2.33	0.23	3.23	-3.00	0.30	7
F19	25.80	17.40	42.31	-4.33	5.72	-5.10	0.52	1
F20	25.20	17.40	18.87	0.61	-14.40	-10.37	1.05	9
F21	25.50	17.10	25.97	-3.83	-6.21	-5.31	0.52	10

Punkt	x	y [m]	mrEd	msEd	mrsEd	mEd [kNm/m]	as,so [cm ² /m]	Lkn
F22	32.15	16.80	15.74	-2.52	-1.50	-2.67	0.27	10
F23	28.50	16.80	-0.44	-2.48	-2.22	-4.70	0.48	10
F24	26.10	16.80	18.10	-2.79	1.82	-2.97	0.29	10
F25	32.40	16.50	16.54	-2.76	-0.53	-2.77	0.28	10
F26	31.50	16.50	1.45	-1.88	-1.76	-3.64	0.37	7
F27	30.78	16.50	-19.05	-2.12	-1.39	-3.51	0.35	7
F28	29.40	16.50	0.77	-2.21	-1.48	-3.69	0.37	10
F29	27.00	16.50	-4.33	-2.76	2.46	-5.22	0.52	7
F30	32.15	16.20	14.40	-2.63	-1.00	-2.70	0.27	10
F31	30.00	16.20	-8.18	-2.06	-1.23	-3.30	0.34	7
F32	31.50	15.90	1.35	-2.24	-1.52	-3.76	0.37	7
F33	34.80	15.60	-16.67	-3.33	-0.91	-4.24	0.42	10
F34	33.30	15.60	12.94	-2.26	0.34	-2.27	0.23	10
F35	31.50	15.30	1.19	-2.29	-1.33	-3.62	0.37	10
F36	35.70	13.80	-10.64	-1.90	-5.55	-7.46	0.75	2
F37	31.20	13.80	-4.98	-1.58	-2.70	-4.28	0.43	9
F38	30.30	13.80	-11.44	-1.91	0.97	-2.87	0.29	3
F39	31.50	13.50	1.57	-0.44	-3.64	-4.08	0.41	1
F40	27.33	13.20	-11.66	-6.11	2.82	-8.93	0.90	2
F41	24.00	13.20	-0.71	0.03	-1.80	-1.78	0.18	4
F42	44.10	12.60	6.85	-0.98	-6.71	-7.56	0.76	2
F43	43.50	12.60	5.71	-2.35	-6.30	-8.65	0.88	2
F44	33.00	10.54	14.28	-10.81	-3.04	-11.46	1.11	2
F45	39.01	10.24	-1.37	-25.50	-3.56	-29.06	2.97	2
F46	23.70	9.00	-10.68	-10.98	3.13	-14.11	1.50	2
F47	21.30	8.75	1.82	-17.10	2.27	-19.37	1.94	4
F48	16.80	8.31	3.12	1.40	-7.28	-5.88	0.59	4
F49	17.70	8.10	-17.69	1.22	-9.44	-8.22	0.83	4
F50	24.00	7.20	0.11	-6.90	-8.11	-15.01	1.61	1
F51	6.00	4.80	13.27	-2.26	16.50	-18.75	1.89	2
F52	7.50	1.20	5.86	-2.33	-16.80	-19.13	1.94	2
F53	35.30	17.46	-16.77	-0.62	1.84	-2.47	0.25	7
F54	27.33	17.61	-18.56	-1.94	-1.76	-3.70	0.37	2
F55	27.58	17.61	-20.95	-1.12	3.79	-4.90	0.49	9
F56	22.31	3.00	-16.42	-4.17	1.72	-5.88	0.59	5
F57	40.76	10.35	-4.60	-4.72	-2.64	-7.36	0.75	4
F58	35.05	17.61	-19.44	-1.30	-3.03	-4.33	0.43	1
F59	35.30	17.61	-17.46	-0.20	2.69	-2.89	0.29	2
F60	35.17	10.35	-9.55	-59.84	-5.16	-65.00	6.76	2
F61	23.56	10.54	-2.16	-5.76	-0.81	-6.56	0.66	2
F62	1.65	3.70	6.47	-3.86	-5.50	-8.53	0.86	4
F63	43.93	10.54	5.70	0.32	-3.98	-2.47	0.25	7
F64	18.11	7.97	-43.55	-5.61	-5.02	-10.64	1.11	2
F65	44.53	10.39	0.44	-6.39	3.34	-9.73	0.98	6
F66	43.03	17.61	-0.18	-0.18	-0.78	-0.96	0.10	2
F67	31.38	17.61	-6.48	-1.45	-3.37	-4.82	0.48	7
F68	31.38	17.46	-5.22	-0.36	-3.18	-3.54	0.35	7
F69	28.38	17.46	-3.69	-0.83	-3.71	-4.54	0.45	7
F70	23.34	17.61	-20.63	-13.18	-21.46	-34.64	3.56	1
F71	19.07	15.53	-2.03	-9.14	-7.10	-16.24	1.67	1
F72	16.37	14.21	0.40	-29.97	3.19	-33.16	3.41	2
F73	42.93	12.86	-17.66	-20.16	-0.46	-20.62	2.05	2
F74	40.86	12.96	-38.15	-15.54	3.02	-18.56	1.89	4
F75	17.74	3.15	-12.30	1.52	17.73	-16.21	1.67	2
F76	17.79	2.90	-15.73	0.63	8.16	-7.53	0.75	2
R01	41.18	2.70	-2.20	-12.74	-6.64	-19.38	1.94	7
R02	23.26	12.64	-12.42	-2.95	5.46	-8.41	0.85	4
R03	42.83	12.96	-3.93	-8.17	-4.87	-13.04	1.34	2
R04	31.48	10.39	5.74	-15.01	-2.99	-16.58	1.67	4
R05	27.06	10.39	7.00	-14.85	8.44	-23.29	2.29	2

Punkt	x	y [m]	mrEd	msEd	mrsEd	mEd [kNm/m]	as,so [cm ² /m]	Lkn
R06	35.22	10.39	-8.53	-37.20	12.85	-50.06	5.18	2
R07	30.53	10.39	-11.98	-31.14	-5.01	-36.15	3.75	2
R08	1.70	3.30	6.58	-4.49	-4.55	-7.64	0.76	4
R09	13.59	8.21	2.32	-38.18	9.36	-47.54	4.89	4
R10	23.41	3.03	14.10	-169.29	18.92	-188.21	22.53	9
R11	23.43	3.00	19.44	-254.32	11.29	-260.87	34.19	9
R12	26.70	1.91	-4.44	1.27	18.51	-17.24	1.74	1
R13	44.66	13.17	2.03	-0.43	-2.16	-2.59	0.26	4
R14	39.25	17.59	0.08	-2.20	-0.65	-2.85	0.28	5
R15	15.39	2.56	0.69	39.10	79.85	-40.75	4.16	2
R16	41.18	10.41	-18.87	-0.26	-24.62	-24.88	2.50	2
R17	11.47	1.77	63.55	-15.66	-73.60	-89.26	9.53	2
R18	39.12	10.80	10.67	-3.85	1.10	-3.97	0.40	1
R19	27.45	13.50	-18.47	-6.25	1.43	-7.69	0.77	2
R20	23.41	17.61	-33.19	-3.26	12.32	-15.58	1.61	2
R21	39.16	17.46	-2.97	0.04	-7.27	-7.23	0.73	5
R22	38.40	13.03	-0.71	-14.07	5.56	-19.63	1.94	2
R23	41.18	10.24	-12.85	-2.65	-7.35	-9.99	1.01	5
R24	38.45	3.30	-22.53	-28.92	-6.43	-35.35	3.65	8
R25	33.13	3.30	-34.92	-43.56	0.98	-44.54	4.51	8
R26	27.18	3.30	-31.32	-38.45	4.55	-43.01	4.43	8
R27	23.27	3.03	9.77	-44.36	28.01	-72.37	7.56	1
R28	25.20	6.83	4.14	-4.19	-8.59	-12.78	1.34	5
R29	12.60	7.73	-18.37	-44.78	18.42	-63.20	6.60	4
R30	22.20	8.88	-4.59	-24.57	-1.89	-26.46	2.60	2
R31	19.71	8.69	3.93	-11.25	6.11	-17.36	1.74	4
R32	18.23	7.50	-39.61	-3.04	-5.38	-8.42	0.85	2
R33	40.88	12.30	-15.46	4.26	7.16	-2.90	0.29	2
R34	35.17	10.80	-3.98	-10.86	-1.53	-12.39	1.21	1
R35	30.65	10.80	-9.26	-11.51	1.71	-13.22	1.34	1
R36	23.41	7.80	-20.87	-12.71	-3.35	-16.06	1.67	1
R37	23.10	3.03	4.08	-6.79	27.11	-33.89	3.41	1
R38	11.46	1.79	112.67	-28.25	-66.98	-68.06	7.10	2
R39	2.29	2.10	-2.36	1.02	3.50	-2.48	0.25	2
R40	25.80	10.39	-1.26	-21.18	3.68	-24.86	2.50	2
R41	44.66	12.29	0.08	-1.16	-5.96	-7.12	0.72	2
R42	23.34	17.59	2.64	-14.90	-12.59	-27.50	2.74	1
R43	15.72	13.88	-1.12	-13.28	-15.33	-28.62	2.81	2
R44	40.96	13.06	-20.70	-9.57	9.07	-18.64	1.89	2
R45	42.83	13.61	1.61	-2.54	0.75	-2.88	0.29	2
R46	40.96	13.61	4.93	-4.89	-0.05	-4.89	0.49	2
R47	40.76	13.15	-27.80	-6.92	-14.42	-21.34	2.19	2
R48	40.76	13.80	-0.17	-2.58	-1.07	-3.65	0.37	2
R49	43.03	13.17	-5.53	-9.20	3.96	-13.16	1.34	4
R50	44.53	13.17	3.50	-2.42	-3.50	-5.92	0.59	4
R51	44.53	17.46	0.45	0.22	-0.97	-0.75	0.08	4
R52	39.25	17.46	-4.90	0.10	-3.45	-3.35	0.34	5
R53	39.25	13.17	2.08	0.51	2.05	-1.50	0.16	5
R54	23.06	9.04	-7.67	-11.38	2.96	-14.34	1.50	2
R55	23.26	9.30	-0.26	-9.94	-1.35	-11.29	1.11	4
R56	23.06	10.54	-1.50	-3.25	-4.17	-7.42	0.75	2
R57	23.06	9.30	0.18	-11.26	1.56	-12.82	1.34	2
R58	16.20	14.25	-1.42	-13.69	-8.95	-22.65	2.29	2
R59	25.50	17.72	43.73	-4.82	-0.17	-4.82	0.48	10
R60	44.79	12.00	-1.28	-3.32	-3.61	-6.93	0.70	2
R61	41.32	10.28	-12.26	-3.21	-10.05	-13.27	1.34	5
R62	41.31	2.70	-0.70	-14.07	-5.65	-19.72	1.94	7
R63	41.31	1.78	-0.65	-0.76	-0.39	-1.15	0.11	7
R64	38.70	1.78	-6.04	-0.49	-5.28	-5.76	0.58	9
R65	34.50	1.78	2.21	-0.07	-3.03	-3.10	0.32	2

Punkt	x	y [m]	mrEd	msEd	mrsEd	mEd [kNm/m]	as,so [cm ² /m]	Lkn
R66	32.10	1.78	-6.39	0.01	3.71	-3.70	0.37	1
R67	27.00	1.78	-1.77	2.59	9.21	-6.61	0.66	9
R68	23.30	1.78	-0.50	-0.51	0.16	-0.68	0.07	7
R69	23.30	2.85	-11.09	-76.11	5.97	-82.09	8.67	1
R70	23.10	2.89	-6.41	-22.44	28.09	-50.53	5.18	1
R71	1.56	3.30	4.62	-2.01	-3.54	-4.72	0.48	4

Pos.Unterzug-Bem

Unterzug-Bem

Bemessung (GZT)

Nachweise im Grenzzustand der Tragfähigkeit nach
DIN EN 1992-1-1

Bem.werte

	Längs	Quer	b_w [cm]	h_{ges} [cm]	b_{p1} [cm]	h_f [cm]
P-1-1, P-1-2	B 500SA	B 500SA	25.0	50.0	60.0	25.0
P-1-3	B 500SA	B 500SA	26.0	50.0	60.0	25.0
P-1-4..P-1-6	B 500SA	B 500SA	25.0	50.0	60.0	25.0
P-1-7_1	B 500SA	B 500SA	26.0	50.0	60.0	25.0
P-1-7_2	B 500SA	B 500SA	30.0	50.0	60.0	25.0
P-1-8_1	B 500SA	B 500SA	26.0	50.0	60.0	25.0
P-1-8_2	B 500SA	B 500SA	26.0	70.0	60.0	25.0
P-1-9	B 500SA	B 500SA	25.0	43.0	60.0	25.0
P-1-10	B 500SA	B 500SA	26.0	99.0	60.0	25.0
P-1-11	B 500SA	B 500SA	26.0	93.0	60.0	25.0
P-1-12, P-1-13	B 500SA	B 500SA	30.0	50.0	60.0	25.0
P-1-14_1	B 500SA	B 500SA	25.0	50.0	60.0	25.0
P-1-14_2	B 500SA	B 500SA	20.0	164.0	60.0	25.0
P-1-15	B 500SA	B 500SA	20.0	50.0	60.0	25.0
UZ-1	B 500SA	B 500SA	20.0	179.0	60.0	25.0
V-1-1_1..V-1-1_8	B 500SA	B 500SA	26.0	43.0	60.0	25.0
V-1-2_1, V-1-2_2	B 500SA	B 500SA	26.0	43.0	26.0	25.0
V-1-3_1..V-1-3_9	B 500SA	B 500SA	25.0	43.0	60.0	25.0
V-1-4_1..V-1-4_5	B 500SA	B 500SA	30.0	43.0	60.0	25.0

b_w : Balkenbreite
 h_{ges} : Balkenhöhe mit Plattendicke
 b_{p1} : Breite der Platte
 h_f : Dicke der Platte

Bewehrung

	d'_{u1} [cm]	d'_{u2} [cm]	Theta [°]	Mind.bew.	Typ
P-1-1..P-1-6, P-1-7_1, P-1-7_2, P-1-8_1, P-1-8_2, P-1-9..P-1-13, P-1-14_1, P-1-14_2, P-1-15, UZ-1, V-1-1_1..V-1-1_8, V-1-2_1, V-1-2_2, V-1-3_1..V-1-3_9, V-1-4_1..V-1-4_5	5.00	5.00	opt	LQ	PB

LQ : Mindestlängsbewehrung (9.2.1.1) und
 Mindestquerkraftbewehrung (9.2.2) berücksichtigt.
 opt : Druckstrebenneigung wurde vom Programm optimiert.
 PB : Bemessungsquerschnitt (Plattenbalken): Plattenmomente und
 -querkräfte werden berücksichtigt.
 Theta : vorgegebene minimale Druckstrebenneigung

Mat./Querschnitt

Material- und Querschnittswerte nach DIN EN
1992-1-1

Stahlbeton-Balken

Position	Art	Material	Ges.	$l_{(r)}$ [m]	$b_{(t)}/h_{(s)}$ [cm]
P-1-1	UZ	C 30/37	Q	18.05	25.0/25.0
P-1-2	UZ	C 30/37	Q	18.04	25.0/25.0
P-1-3	UZ	C 30/37	Q	18.02	26.0/25.0
P-1-4..P-1-6	UZ	C 30/37	Q	8.61	25.0/25.0
P-1-7_1	UZ	C 30/37	Q	1.22	26.0/25.0
P-1-7_2	UZ	C 30/37	Q	3.63	30.0/25.0
P-1-8_1	UZ	C 30/37	Q	1.25	26.0/25.0
P-1-8_2	UZ	C 30/37	Q	7.52	26.0/45.0

Position	Art	Material	Ges.	$l_{(r)}$ [m]	$b_{(t)}/h_{(s)}$ [cm]
P-1-9	UZ	C 30/37	Q	6.03	25.0/18.0
P-1-10	UZ	C 30/37	Q	4.00	26.0/74.0
P-1-11	UZ	C 30/37	Q	4.03	26.0/68.0
P-1-12	UZ	C 30/37	Q	1.30	30.0/25.0
P-1-13	UZ	C 30/37	Q	2.00	30.0/25.0
P-1-14_1	UZ	C 30/37	Q	2.64	25.0/25.0
P-1-14_2	UZ	C 30/37	Q	4.69	20.0/139.0
P-1-15	UZ	C 30/37	Q	17.75	20.0/25.0
UZ-1	UZ	C 30/37	Q	1.50	20.0/154.0
V-1-1_1	UZ	C 30/37	Q	25.72	26.0/18.0
V-1-1_2	UZ	C 30/37	Q	15.91	26.0/18.0
V-1-1_3	UZ	C 30/37	Q	2.76	26.0/18.0
V-1-1_4	UZ	C 30/37	Q	3.50	26.0/18.0
V-1-1_5	UZ	C 30/37	Q	2.81	26.0/18.0
V-1-1_6	UZ	C 30/37	Q	8.41	26.0/18.0
V-1-1_7	UZ	C 30/37	Q	2.43	26.0/18.0
V-1-1_8	UZ	C 30/37	Q	5.64	26.0/18.0
V-1-2_1	UZ	C 30/37	Q	5.40	26.0/18.0
V-1-2_2	UZ	C 30/37	Q	4.42	26.0/18.0
V-1-3_1	UZ	C 30/37	Q	23.78	25.0/18.0
V-1-3_2	UZ	C 30/37	Q	5.22	25.0/18.0
V-1-3_3	UZ	C 30/37	Q	7.37	25.0/18.0
V-1-3_4	UZ	C 30/37	Q	7.22	25.0/18.0
V-1-3_5	UZ	C 30/37	Q	2.47	25.0/18.0
V-1-3_6	UZ	C 30/37	Q	2.82	25.0/18.0
V-1-3_7	UZ	C 30/37	Q	4.97	25.0/18.0
V-1-3_8	UZ	C 30/37	Q	2.07	25.0/18.0
V-1-3_9	UZ	C 30/37	Q	3.47	25.0/18.0
V-1-4_1	UZ	C 30/37	Q	3.65	30.0/18.0
V-1-4_2	UZ	C 30/37	Q	3.10	30.0/18.0
V-1-4_3	UZ	C 30/37	Q	7.72	30.0/18.0
V-1-4_4	UZ	C 30/37	Q	3.89	30.0/18.0
V-1-4_5	UZ	C 30/37	Q	5.07	30.0/18.0

UZ : Unterzug
Q : Quarzit

Stahlbeton DIN EN 1992-1-1

Position	Material	μ	γ [kN/m ³]	G-Modul E-Modul [N/mm ²]
P-1-1	C 30/37	0.20	25.00	13750 33000
P-1-2	C 30/37	0.20	25.00	13750 33000
P-1-3	C 30/37	0.20	25.00	13750 33000
P-1-4	C 30/37	0.20	25.00	13750 33000
P-1-5	C 30/37	0.20	25.00	13750 33000
P-1-6	C 30/37	0.20	25.00	13750 33000
P-1-7_1	C 30/37	0.20	25.00	13750 33000
P-1-7_2	C 30/37	0.20	25.00	13750 33000
P-1-8_1	C 30/37	0.20	25.00	13750 33000
P-1-8_2	C 30/37	0.20	25.00	13750 33000
P-1-9	C 30/37	0.20	25.00	13750

Position	Material	μ	γ [kN/m ³]	G-Modul E-Modul [N/mm ²]
P-1-10	C 30/37	0.20	25.00	33000
P-1-11	C 30/37	0.20	25.00	13750
P-1-12	C 30/37	0.20	25.00	33000
P-1-13	C 30/37	0.20	25.00	13750
P-1-14_1	C 30/37	0.20	25.00	33000
P-1-14_2	C 30/37	0.20	25.00	13750
P-1-15	C 30/37	0.20	25.00	33000
UZ-1	C 30/37	0.20	25.00	13750
V-1-1_1	C 30/37	0.20	25.00	33000
V-1-1_2	C 30/37	0.20	25.00	13750
V-1-1_3	C 30/37	0.20	25.00	33000
V-1-1_4	C 30/37	0.20	25.00	13750
V-1-1_5	C 30/37	0.20	25.00	33000
V-1-1_6	C 30/37	0.20	25.00	13750
V-1-1_7	C 30/37	0.20	25.00	33000
V-1-1_8	C 30/37	0.20	25.00	13750
V-1-2_1	C 30/37	0.20	25.00	33000
V-1-2_2	C 30/37	0.20	25.00	13750
V-1-3_1	C 30/37	0.20	25.00	33000
V-1-3_2	C 30/37	0.20	25.00	13750
V-1-3_3	C 30/37	0.20	25.00	33000
V-1-3_4	C 30/37	0.20	25.00	13750
V-1-3_5	C 30/37	0.20	25.00	33000
V-1-3_6	C 30/37	0.20	25.00	13750
V-1-3_7	C 30/37	0.20	25.00	33000
V-1-3_8	C 30/37	0.20	25.00	13750
V-1-3_9	C 30/37	0.20	25.00	33000
V-1-4_1	C 30/37	0.20	25.00	13750
V-1-4_2	C 30/37	0.20	25.00	33000

Position	Material	μ	γ [kN/m ³]	G-Modul [N/mm ²]	E-Modul [N/mm ²]
v-1-4_3	c 30/37	0.20	25.00	13750	33000
v-1-4_4	c 30/37	0.20	25.00	13750	33000
v-1-4_5	c 30/37	0.20	25.00	13750	33000

Betonstahl
DIN EN 1992-1-1

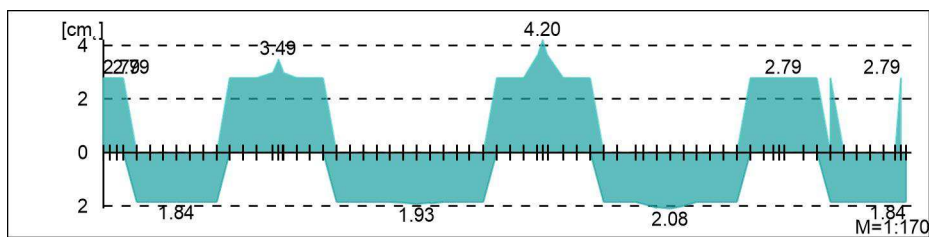
Material	μ	γ [kN/m ³]	G-Modul [N/mm ²]	E-Modul [N/mm ²]
B 500SA	0.30	78.50	77000	200000

Pos.P-1-1

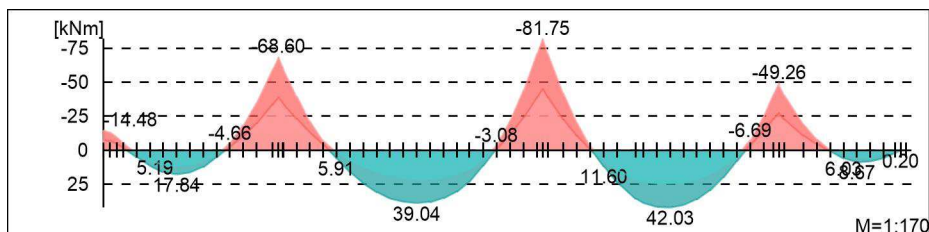
Bemessung im Grenzzustand der Tragfähigkeit

Längsbewehrung

Tragfähigkeitsnachweis: Längsbewehrung As oben / unten

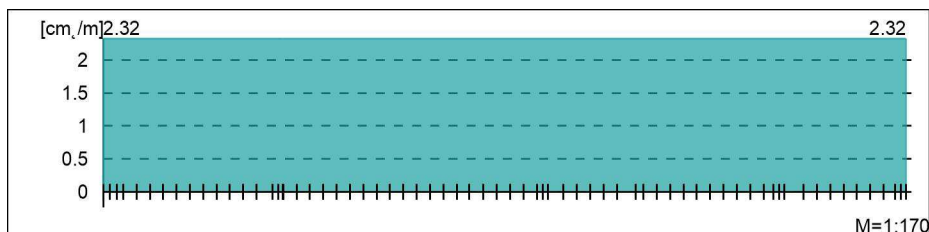


Tragfähigkeitsnachweis: Bemessungsmoment MED

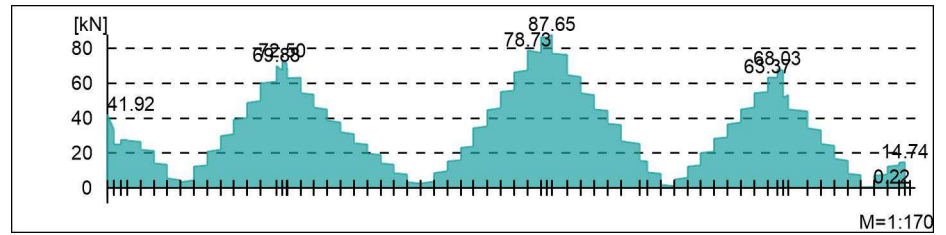


Bügelbewehrung [cm²/m]:

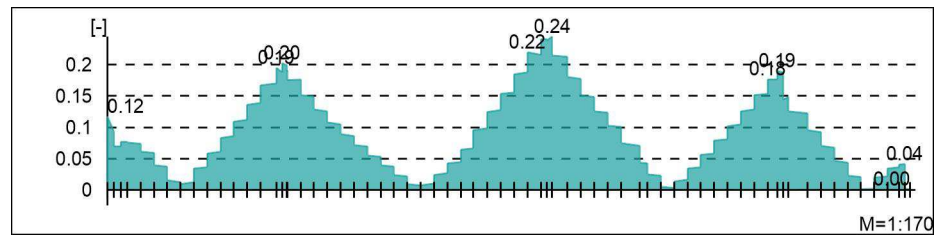
Tragfähigkeitsnachweis: Querkraftbewehrung Asw/sw



Tragfähigkeitsnachweis: Bemessungsquerkraft V_{Ed}

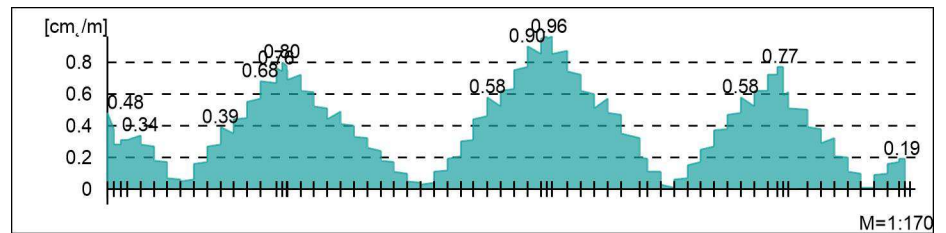


Tragfähigkeitsnachweis: Querkraftausnutzung $V_{Ed} / V_{Rd,max}$

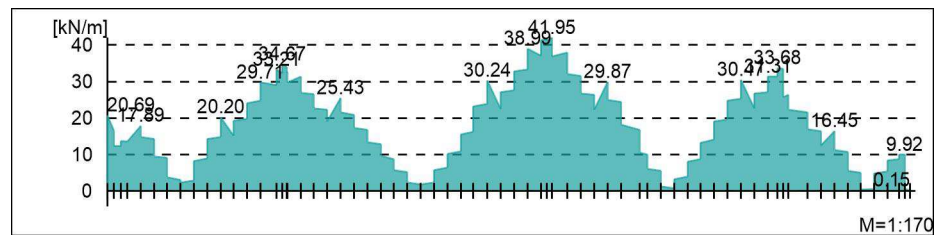


Gurtanschlussbewehrung $[cm^2/m]$:

Erforderliche Gurtanschlussbewehrung asf



Bemessungslängsschubkraft v_{Ed}

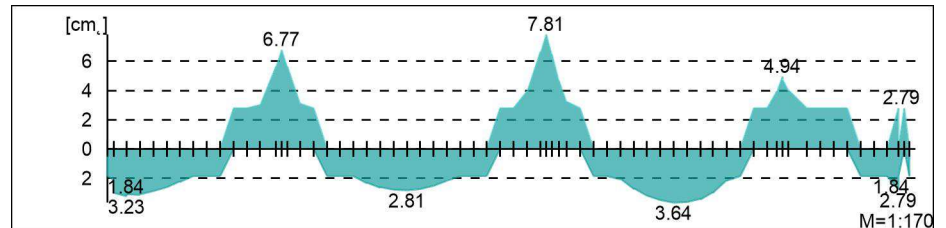


Pos.P-1-2

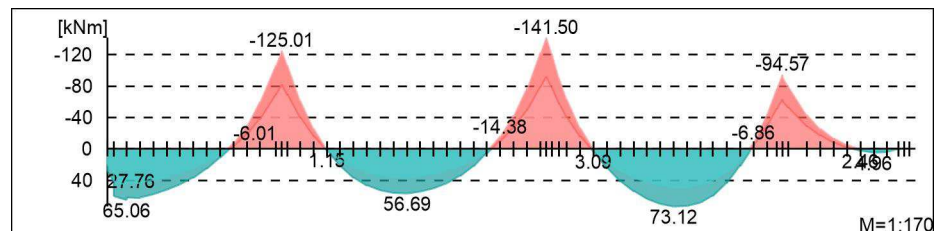
Bemessung im Grenzzustand der Tragfähigkeit

Längsbewehrung

Tragfähigkeitsnachweis: Längsbewehrung As oben / unten

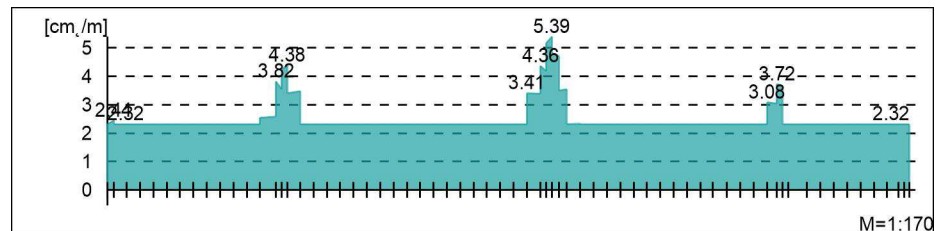


Tragfähigkeitsnachweis: Bemessungsmoment MED

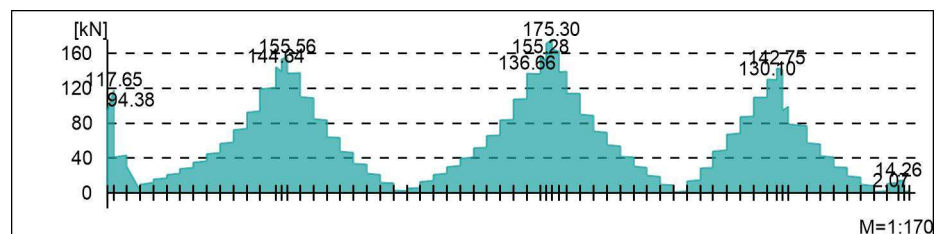


Bügelbewehrung [cm²/m]:

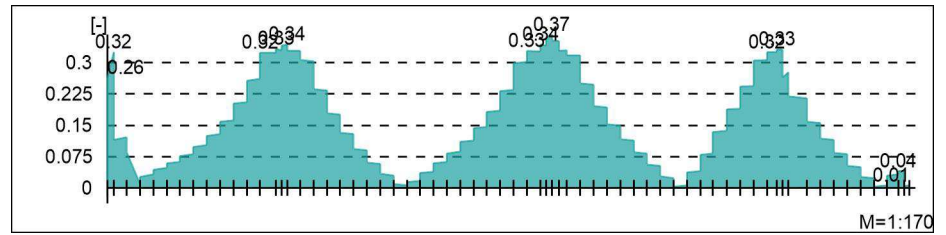
Tragfähigkeitsnachweis: Querkraftbewehrung Asw/sw



Tragfähigkeitsnachweis: Bemessungsquerkraft VEd

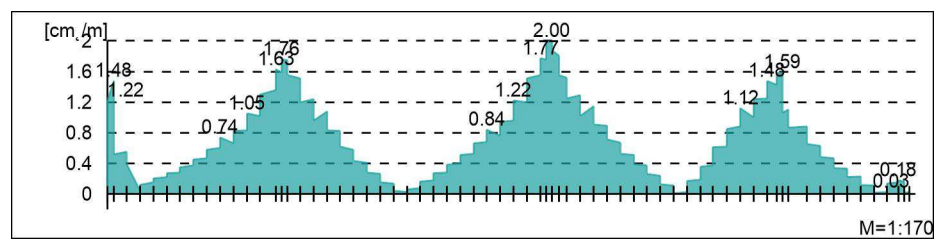


Tragfähigkeitsnachweis: Querkraftausnutzung $V_{Ed} / V_{Rd,max}$

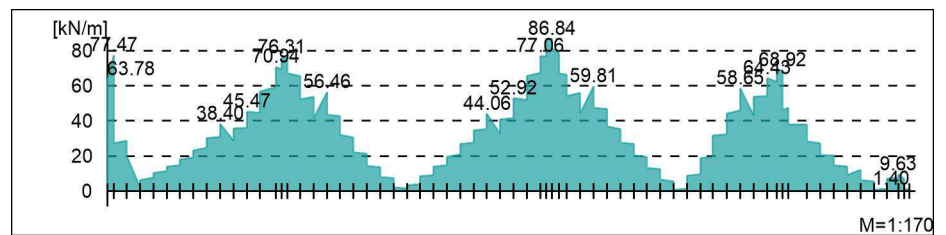


Gurtanschlussbewehrung [cm^2/m]:

Erforderliche Gurtanschlussbewehrung a_{sf}



Bemessungslängsschubkraft V_{Ed}

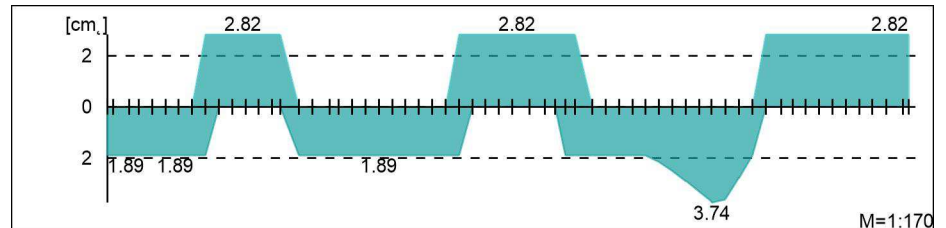


Pos. P-1-3

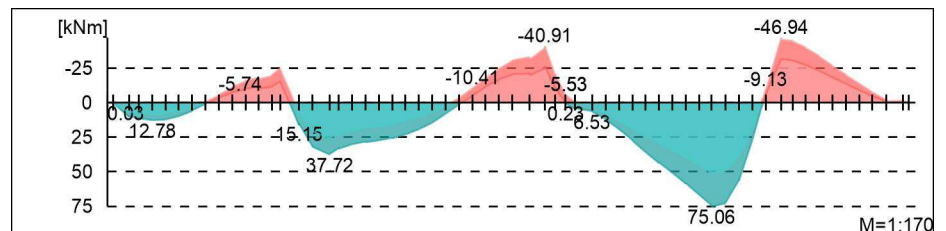
Bemessung im Grenzzustand der Tragfähigkeit

Längsbewehrung

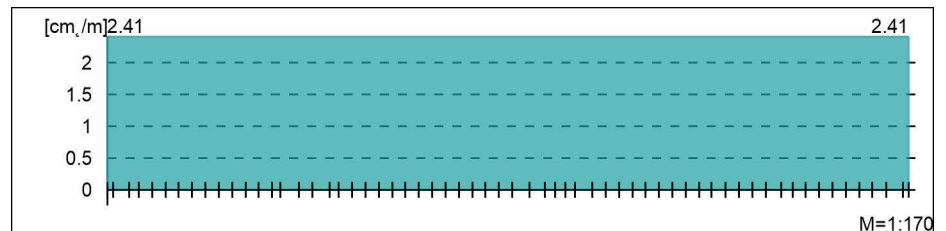
Tragfähigkeitsnachweis: Längsbewehrung As oben / unten



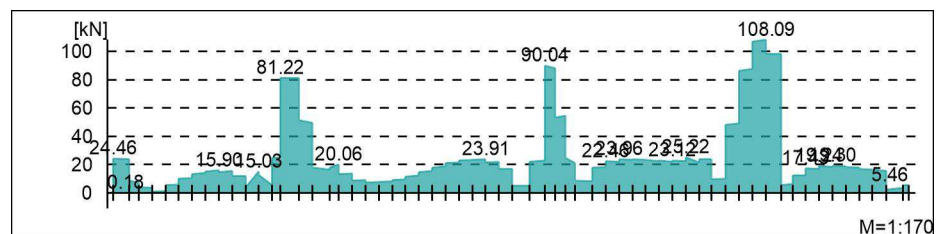
Tragfähigkeitsnachweis: Bemessungsmoment M_{Ed}

Bügelbewehrung [cm²/m]:

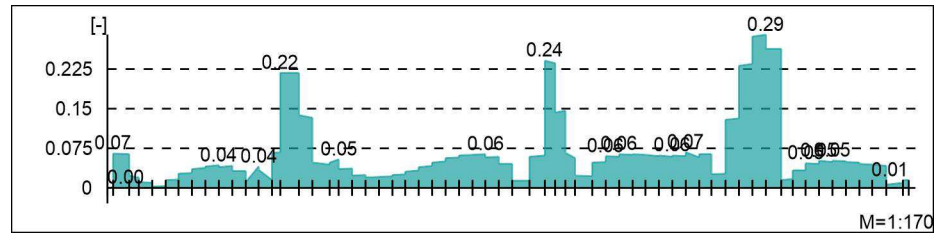
Tragfähigkeitsnachweis: Querkraftbewehrung A_{sw}/s_w



Tragfähigkeitsnachweis: Bemessungsquerkraft V_{Ed}

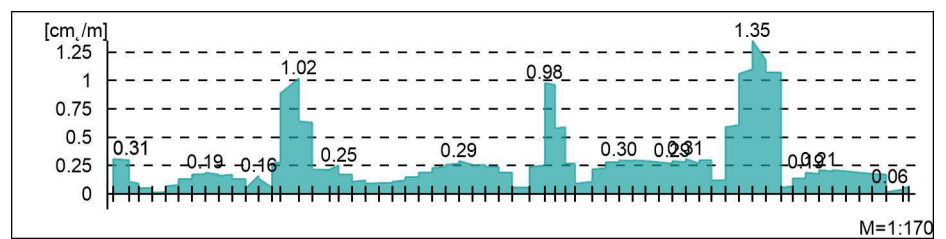


Tragfähigkeitsnachweis: Querkraftausnutzung $V_{Ed} / V_{Rd,max}$

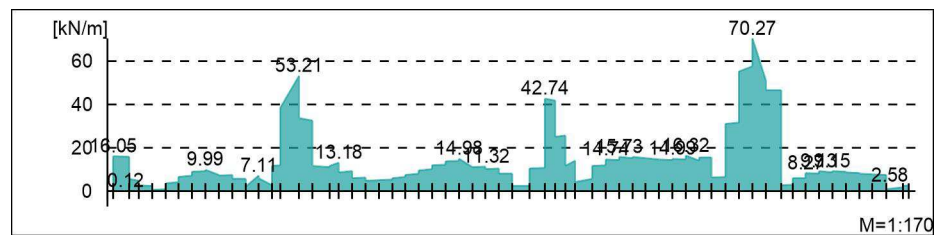


Gurtanschlussbewehrung $[cm^2/m]$:

Erforderliche Gurtanschlussbewehrung a_{sf}



Bemessungslängsschubkraft V_{Ed}

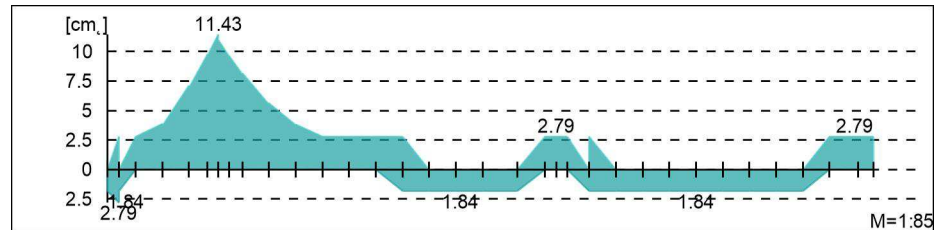


Pos.P-1-4

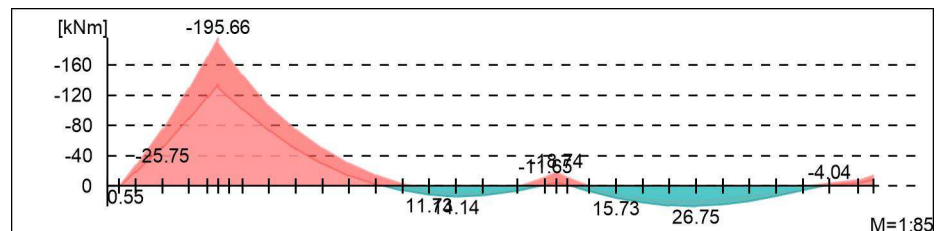
Bemessung im Grenzzustand der Tragfähigkeit

Längsbewehrung

Tragfähigkeitsnachweis: Längsbewehrung As oben / unten

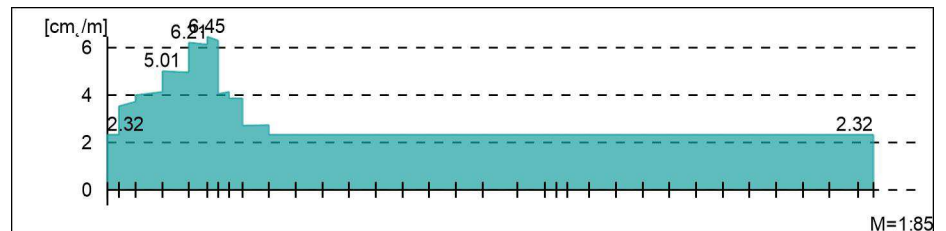


Tragfähigkeitsnachweis: Bemessungsmoment MED

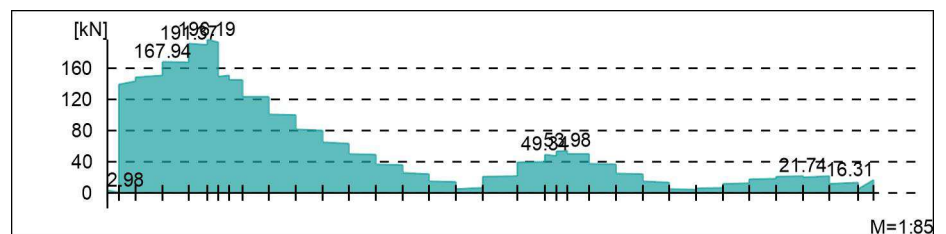


Bügelbewehrung [cm²/m]:

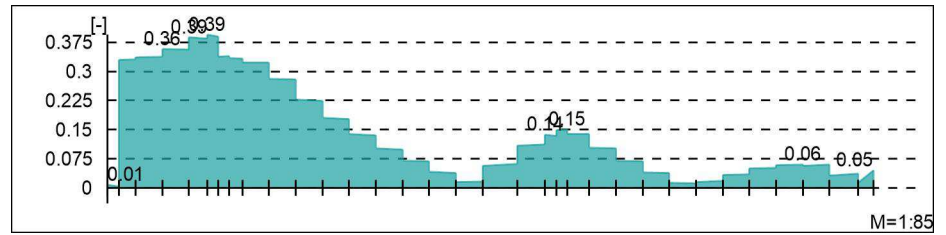
Tragfähigkeitsnachweis: Querkraftbewehrung Asw/sw



Tragfähigkeitsnachweis: Bemessungsquerkraft VEd

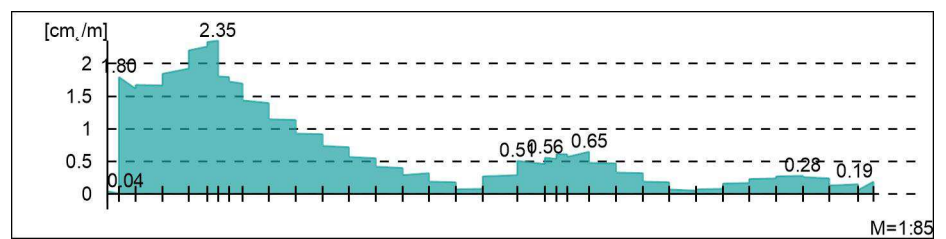


Tragfähigkeitsnachweis: Querkraftausnutzung $V_{Ed} / V_{Rd,max}$

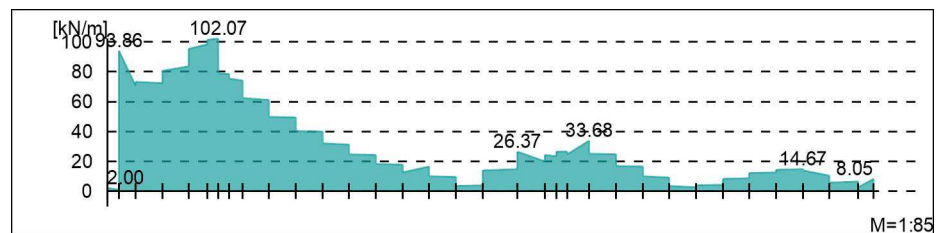


Gurtanschlussbewehrung [cm^2/m]:

Erforderliche Gurtanschlussbewehrung asf



Bemessungslängsschubkraft v_{Ed}

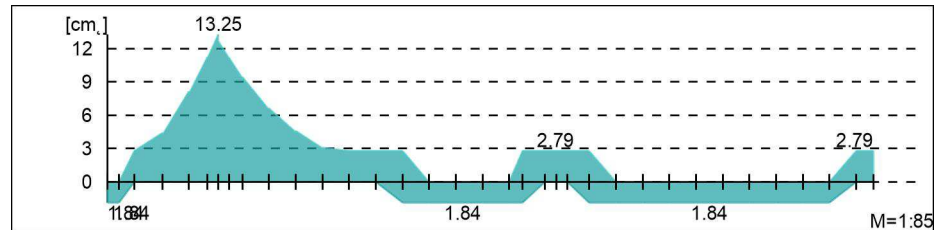


Pos.P-1-5

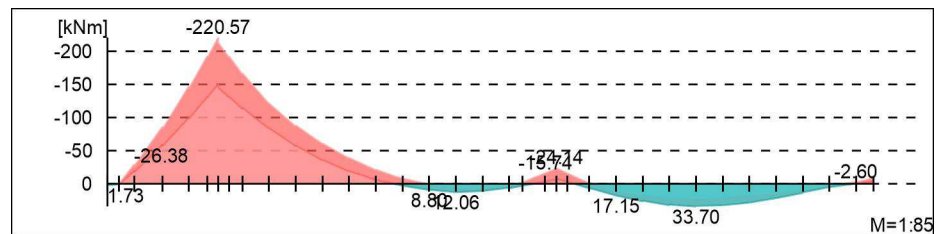
Bemessung im Grenzzustand der Tragfähigkeit

Längsbewehrung

Tragfähigkeitsnachweis: Längsbewehrung As oben / unten

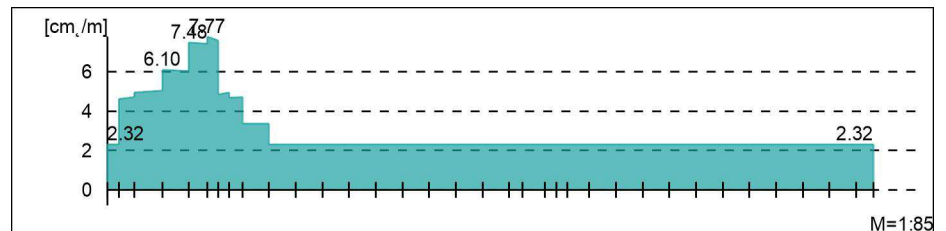


Tragfähigkeitsnachweis: Bemessungsmoment MED

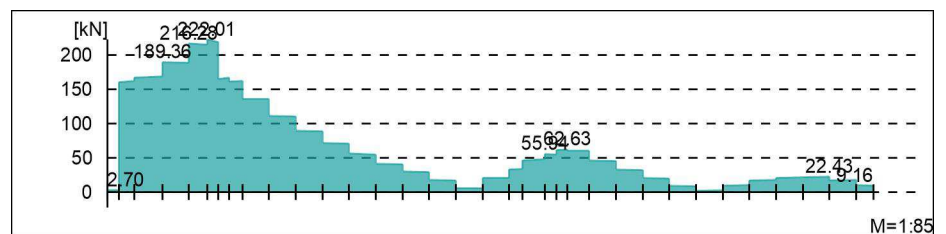


Bügelbewehrung [cm²/m]:

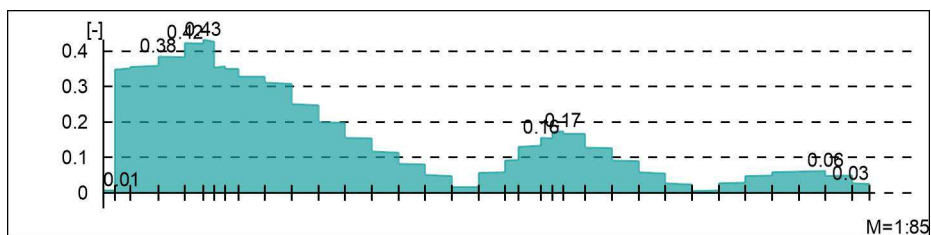
Tragfähigkeitsnachweis: Querkraftbewehrung Asw/sw



Tragfähigkeitsnachweis: Bemessungsquerkraft VEd

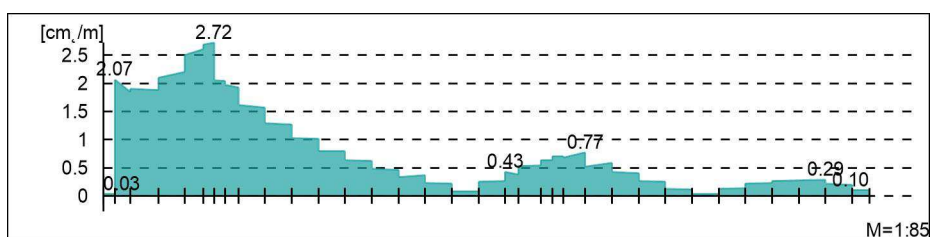


Tragfähigkeitsnachweis: Querkraftausnutzung V_{Ed} / $VR_{d,max}$

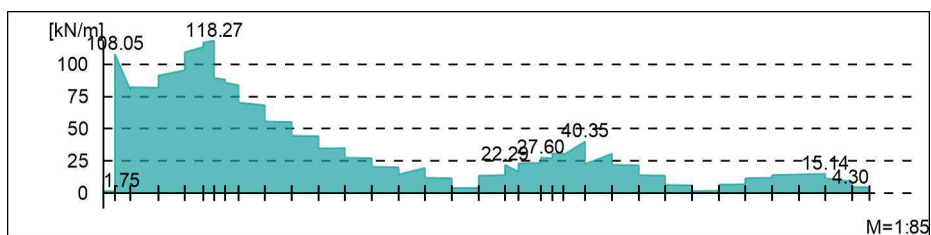


Gurtanschlussbewehrung $[cm^2/m]$:

Erforderliche Gurtanschlussbewehrung as_f



Bemessungslängsschubkraft v_{Ed}

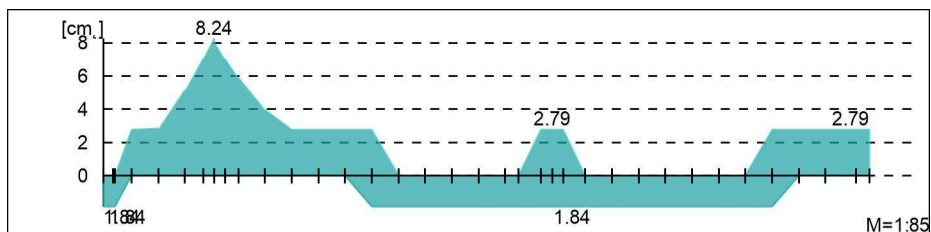


Pos.P-1-6

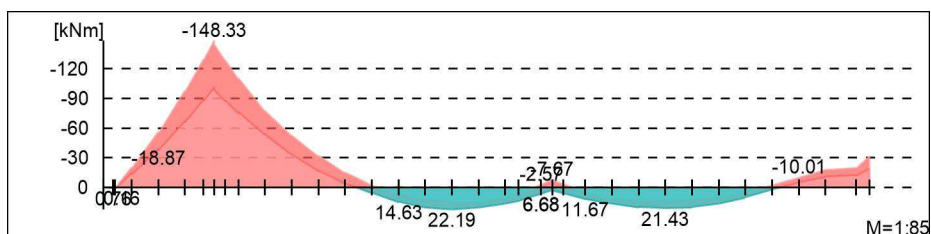
Bemessung im Grenzzustand der Tragfähigkeit

Längsbewehrung

Tragfähigkeitsnachweis: Längsbewehrung As oben / unten

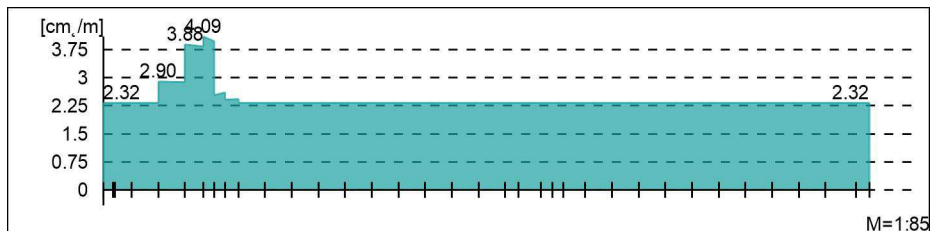


Tragfähigkeitsnachweis: Bemessungsmoment MED

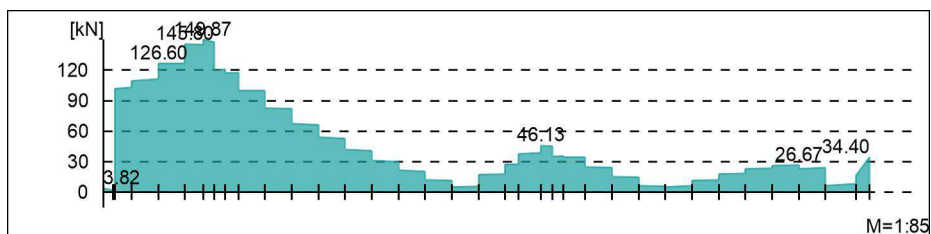


Bügelbewehrung [cm²/m]:

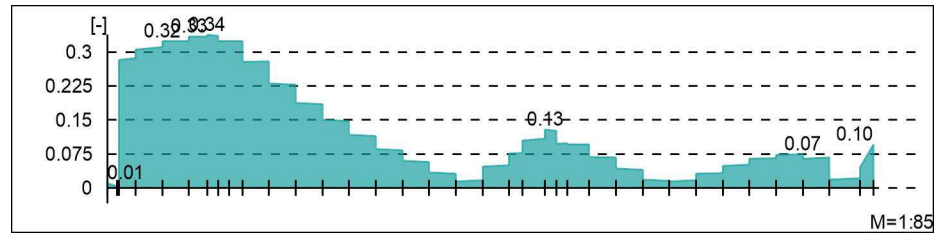
Tragfähigkeitsnachweis: Querkraftbewehrung Asw/sw



Tragfähigkeitsnachweis: Bemessungsquerkraft VEd

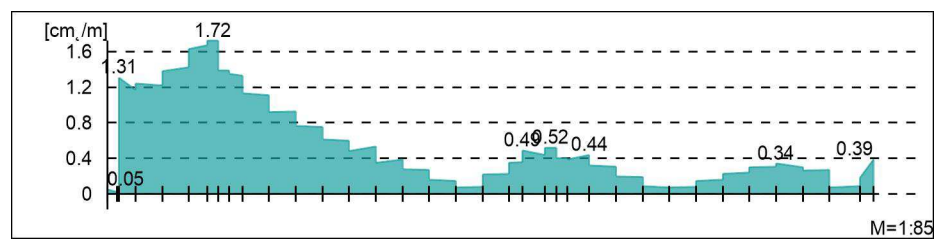


Tragfähigkeitsnachweis: Querkraftausnutzung $V_{Ed} / V_{Rd,max}$

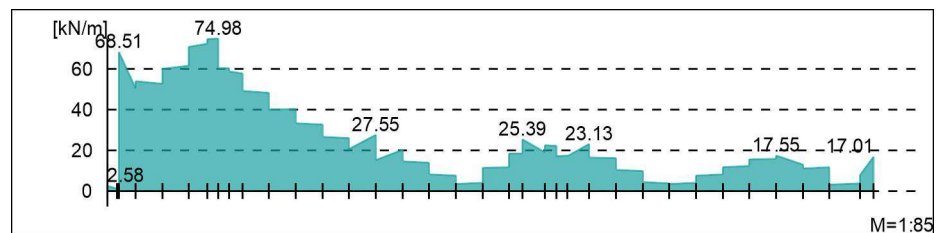


Gurtanschlussbewehrung $[cm^2/m]$:

Erforderliche Gurtanschlussbewehrung asf



Bemessungslängsschubkraft v_{Ed}

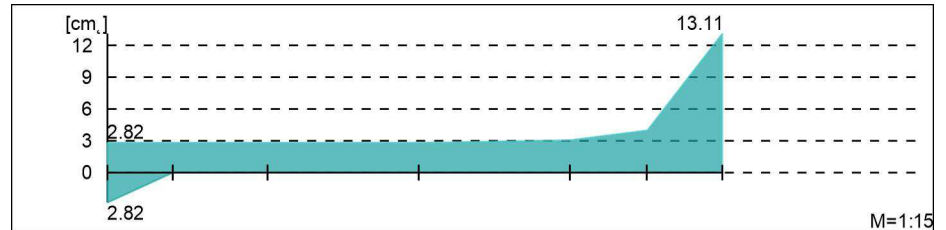


Pos.P-1-7_1

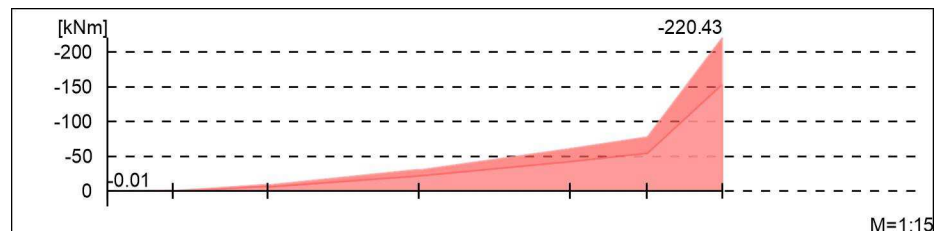
Bemessung im Grenzzustand der Tragfähigkeit

Längsbewehrung

Tragfähigkeitsnachweis: Längsbewehrung As oben / unten

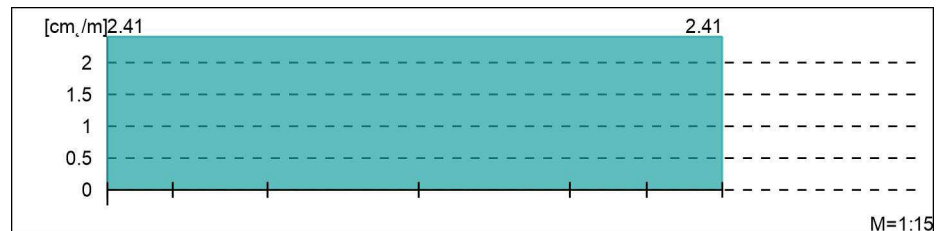


Tragfähigkeitsnachweis: Bemessungsmoment MEd

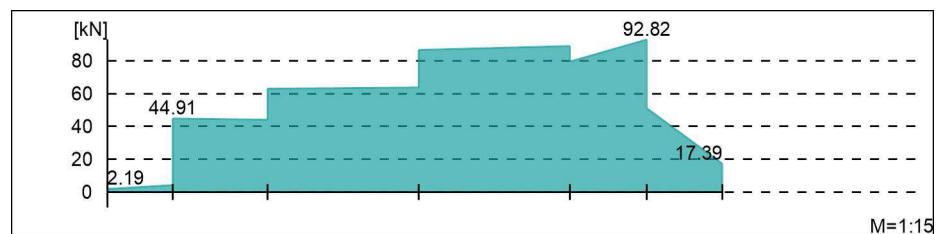


Bügelbewehrung [cm²/m]:

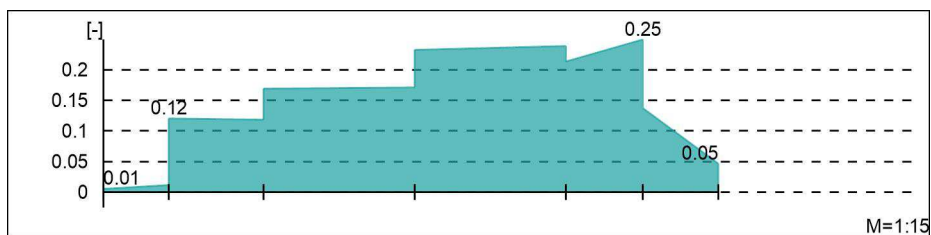
Tragfähigkeitsnachweis: Querkraftbewehrung Asw/sw



Tragfähigkeitsnachweis: Bemessungsquerkraft VEd

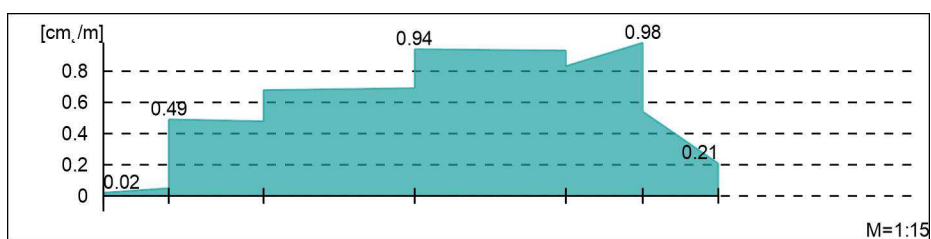


Tragfähigkeitsnachweis: Querkraftausnutzung $V_{Ed} / V_{Rd,max}$

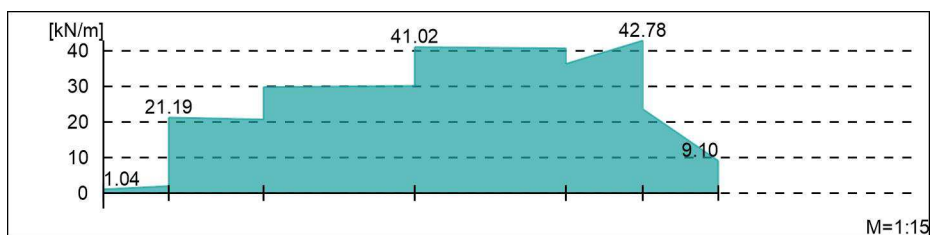


Gurtanschlussbewehrung $[cm^2/m]$:

Erforderliche Gurtanschlussbewehrung as_f



Bemessungslängsschubkraft v_{Ed}

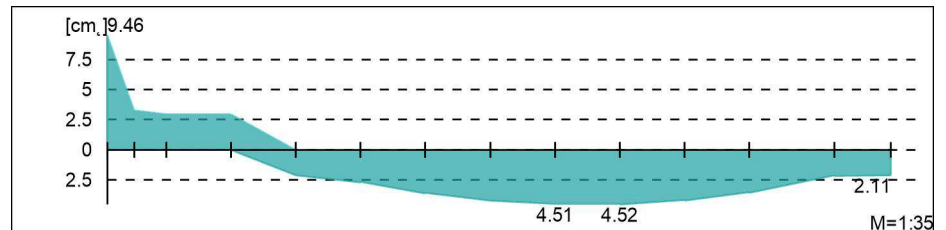


Pos.P-1-7_2

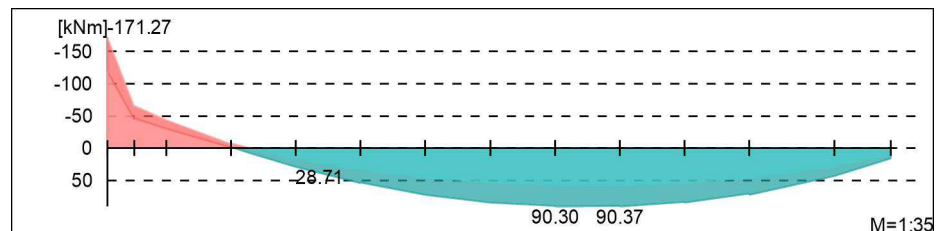
Bemessung im Grenzzustand der Tragfähigkeit

Längsbewehrung

Tragfähigkeitsnachweis: Längsbewehrung As oben / unten

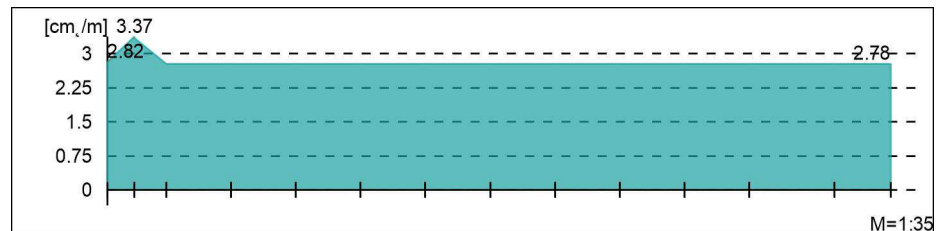


Tragfähigkeitsnachweis: Bemessungsmoment MED

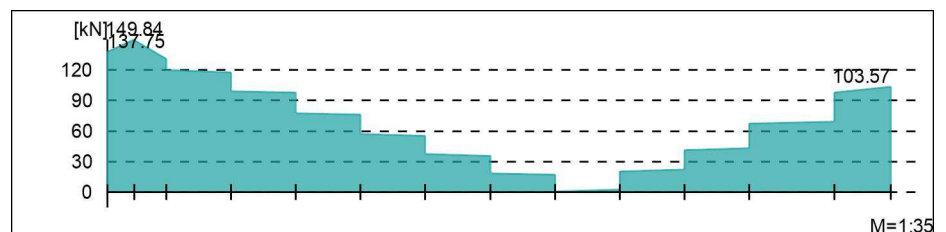


Bügelbewehrung [cm²/m]:

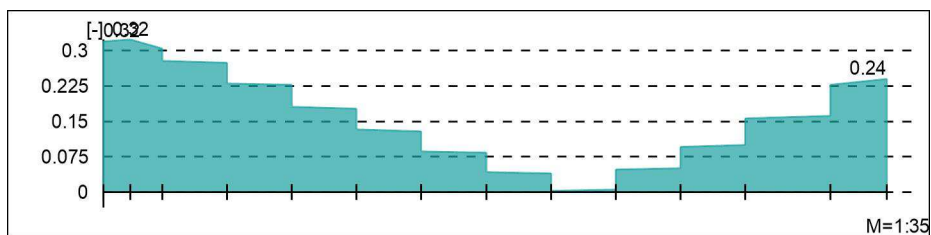
Tragfähigkeitsnachweis: Querkraftbewehrung Asw/sw



Tragfähigkeitsnachweis: Bemessungsquerkraft VEd

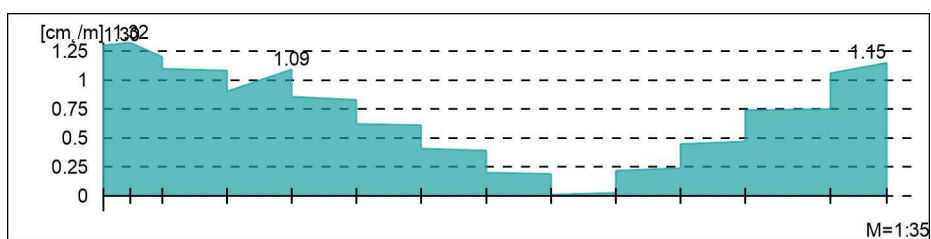


Tragfähigkeitsnachweis: Querkraftausnutzung $V_{Ed} / V_{Rd,max}$

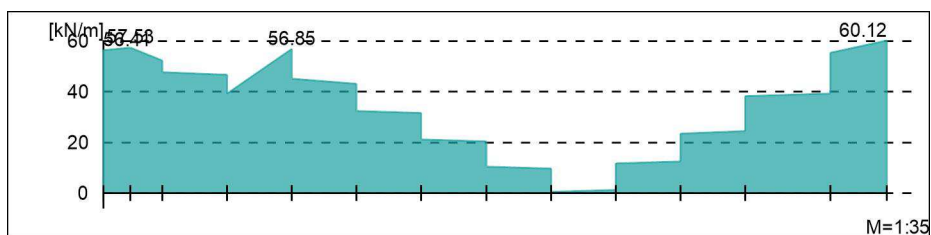


Gurtanschlussbewehrung [cm^2/m]:

Erforderliche Gurtanschlussbewehrung a_{sf}



Bemessungslängsschubkraft v_{Ed}

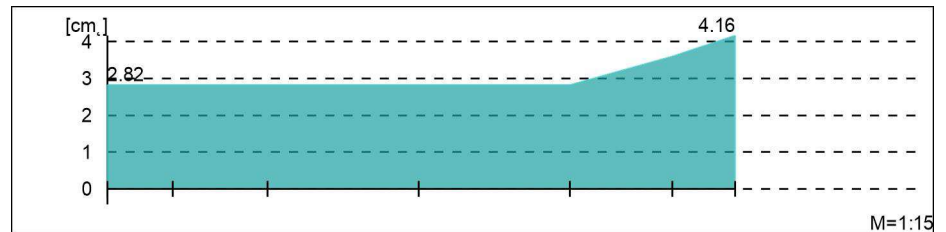


Pos.P-1-8_1

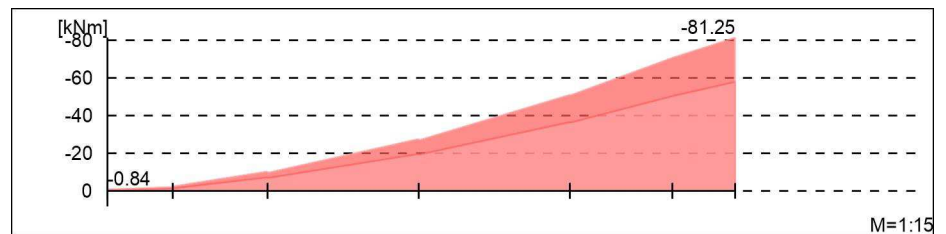
Bemessung im Grenzzustand der Tragfähigkeit

Längsbewehrung

Tragfähigkeitsnachweis: Längsbewehrung As oben / unten

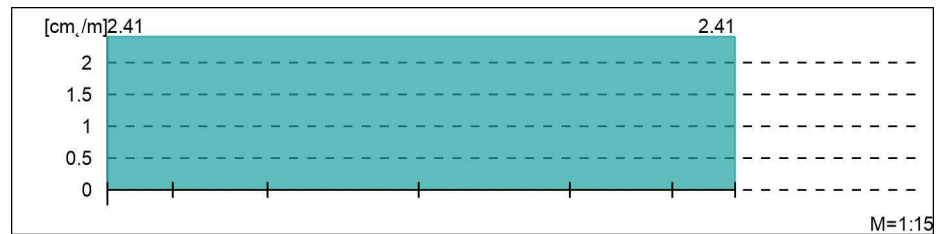


Tragfähigkeitsnachweis: Bemessungsmoment MED

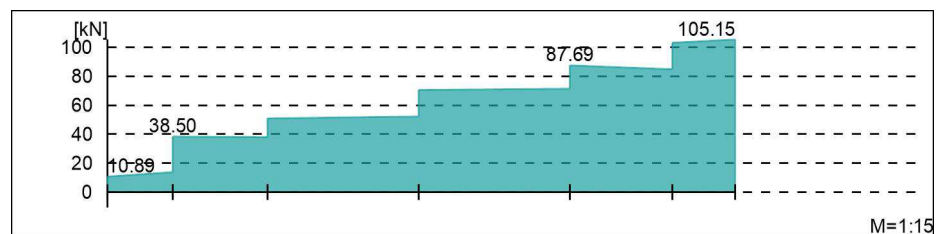


Bügelbewehrung [cm²/m]:

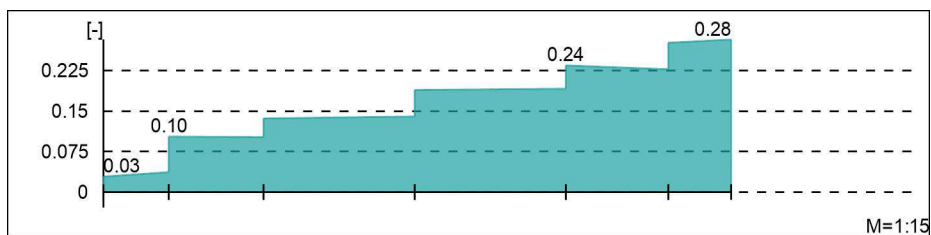
Tragfähigkeitsnachweis: Querkraftbewehrung Asw/sw



Tragfähigkeitsnachweis: Bemessungsquerkraft VEd

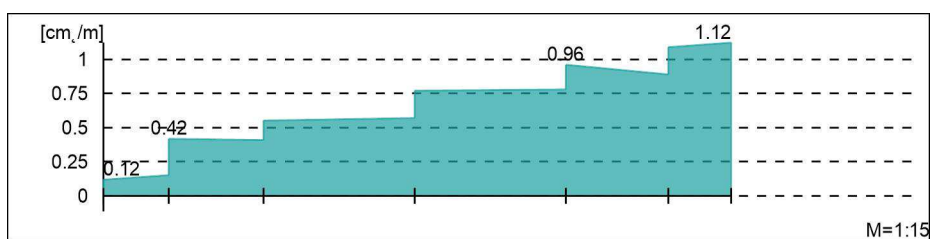


Tragfähigkeitsnachweis: Querkraftausnutzung $V_{Ed} / V_{Rd,max}$

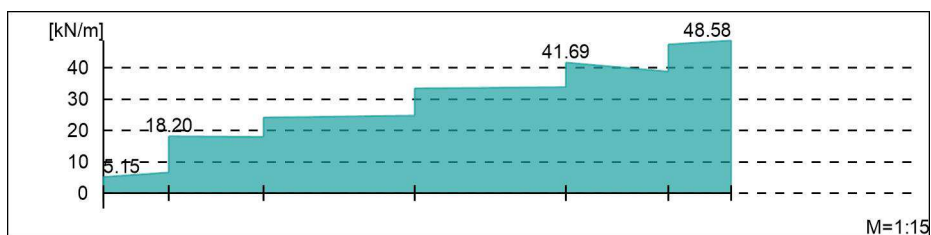


Gurtanschlussbewehrung $[cm^2/m]$:

Erforderliche Gurtanschlussbewehrung asf



Bemessungslängsschubkraft v_{Ed}

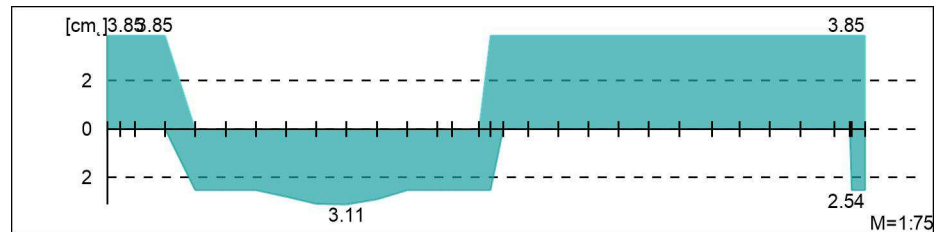


Pos.P-1-8_2

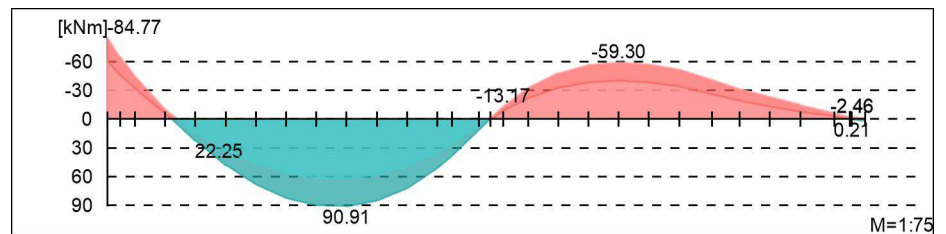
Bemessung im Grenzzustand der Tragfähigkeit

Längsbewehrung

Tragfähigkeitsnachweis: Längsbewehrung As oben / unten

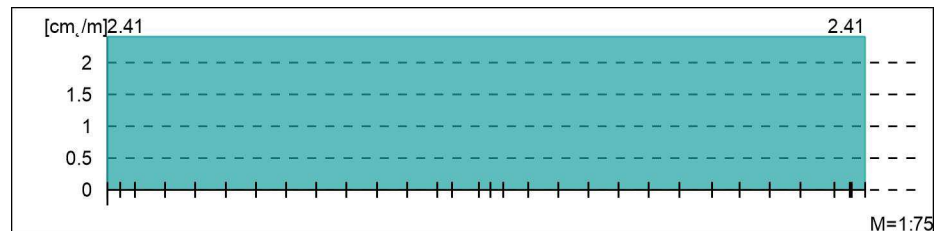


Tragfähigkeitsnachweis: Bemessungsmoment MED

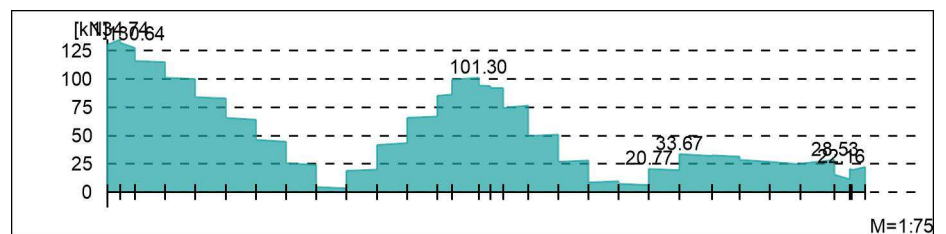


Bügelbewehrung [cm²/m]:

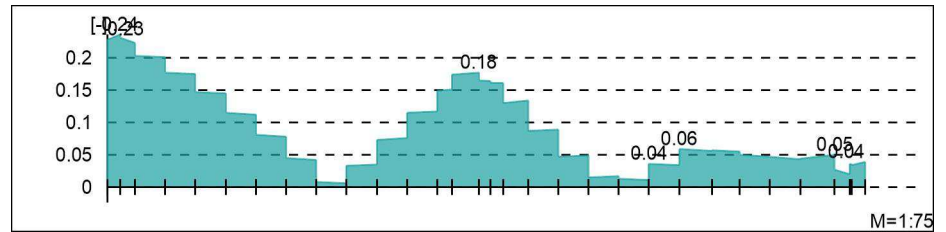
Tragfähigkeitsnachweis: Querkraftbewehrung Asw/sw



Tragfähigkeitsnachweis: Bemessungsquerkraft VEd

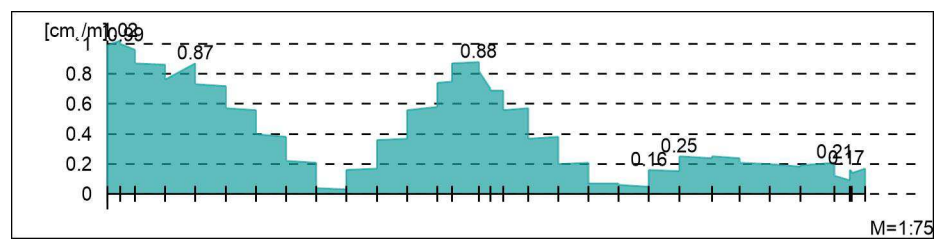


Tragfähigkeitsnachweis: Querkraftausnutzung $V_{Ed} / V_{Rd,max}$

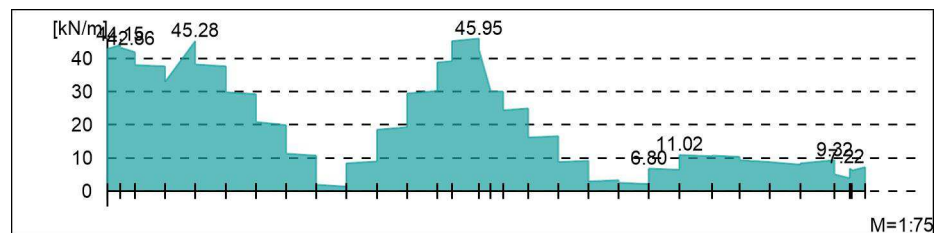


Gurtanschlussbewehrung [cm^2/m]:

Erforderliche Gurtanschlussbewehrung a_{sf}



Bemessungslängsschubkraft v_{Ed}

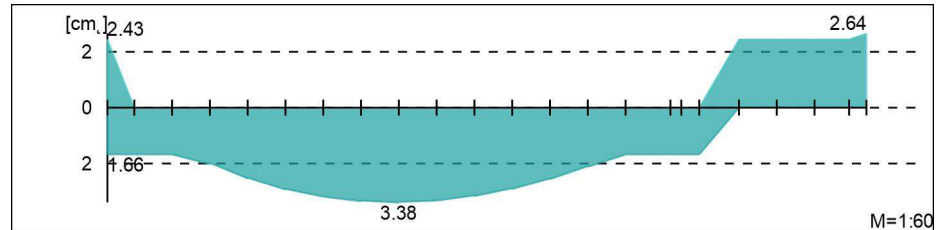


Pos.P-1-9

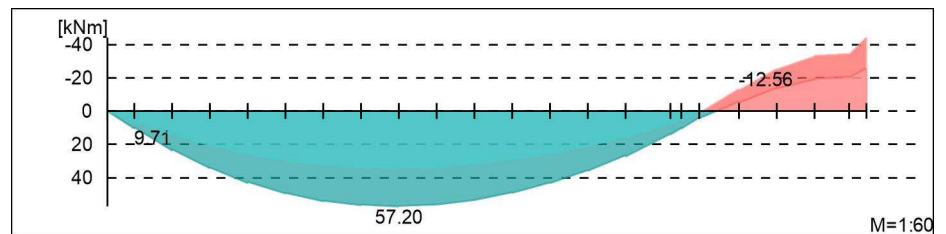
Bemessung im Grenzzustand der Tragfähigkeit

Längsbewehrung

Tragfähigkeitsnachweis: Längsbewehrung As oben / unten

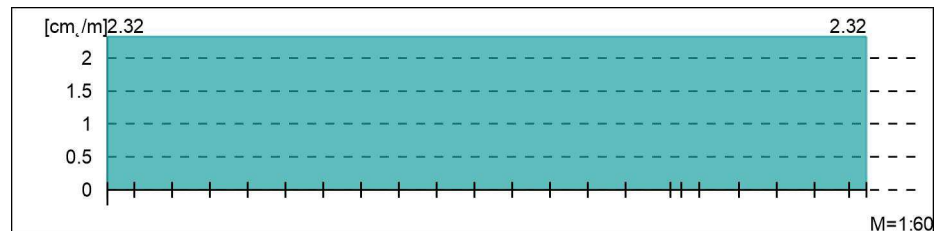


Tragfähigkeitsnachweis: Bemessungsmoment MED

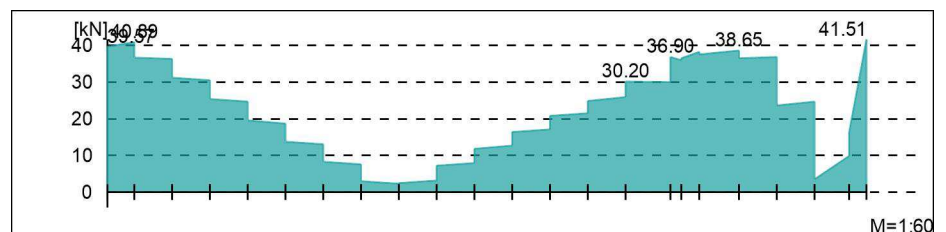


Bügelbewehrung [cm²/m]:

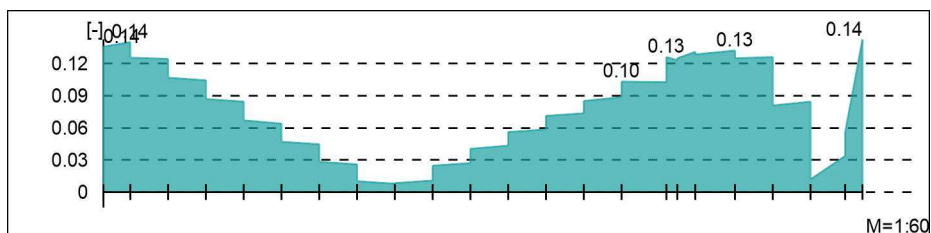
Tragfähigkeitsnachweis: Querkraftbewehrung Asw/sw



Tragfähigkeitsnachweis: Bemessungsquerkraft VEd

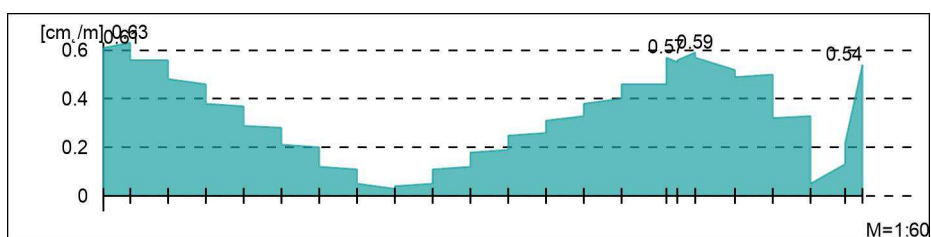


Tragfähigkeitsnachweis: Querkraftausnutzung $V_{Ed} / V_{Rd,max}$

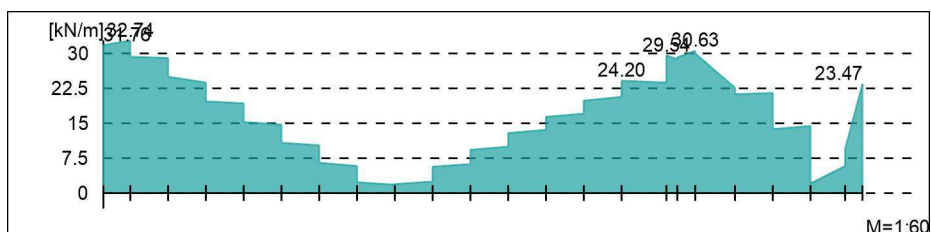


Gurtanschlussbewehrung $[cm^2/m]$:

Erforderliche Gurtanschlussbewehrung as_f



Bemessungslängsschubkraft v_{Ed}

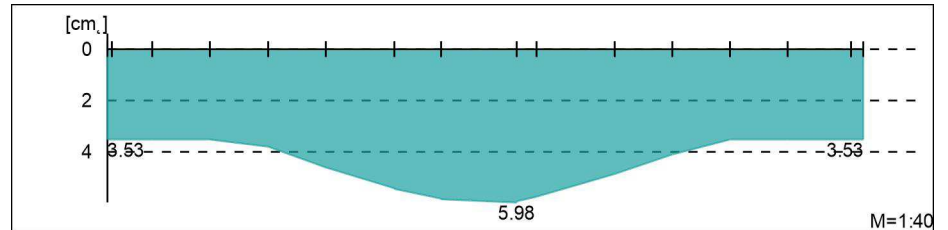


Pos.P-1-10

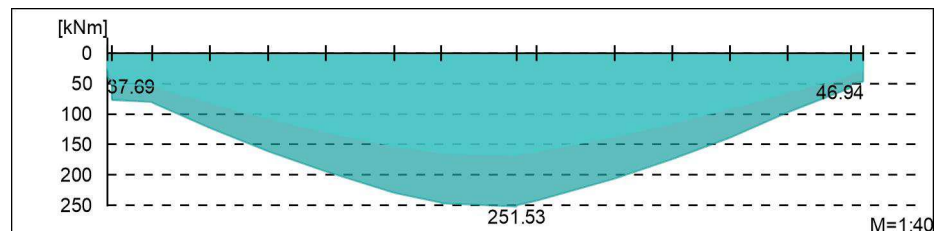
Bemessung im Grenzzustand der Tragfähigkeit

Längsbewehrung

Tragfähigkeitsnachweis: Längsbewehrung As oben / unten

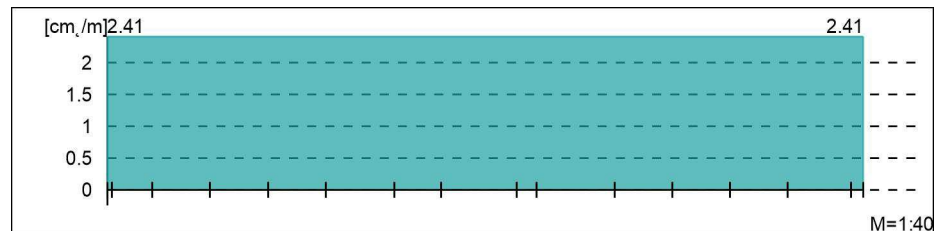


Tragfähigkeitsnachweis: Bemessungsmoment MEd

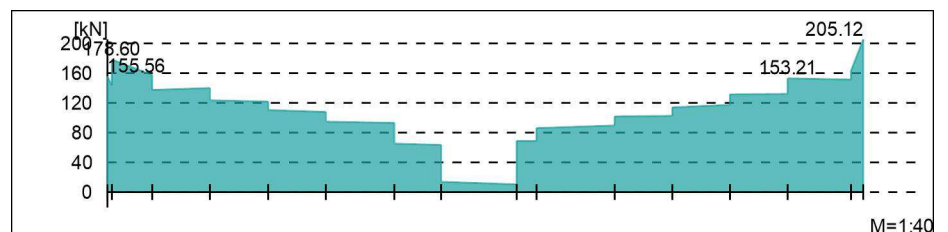


Bügelbewehrung [cm²/m]:

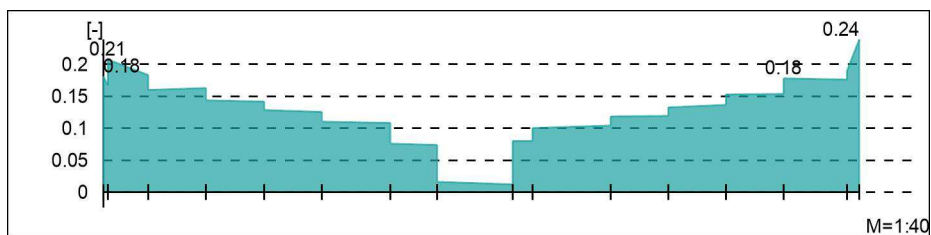
Tragfähigkeitsnachweis: Querkraftbewehrung Asw/sw



Tragfähigkeitsnachweis: Bemessungsquerkraft VEd

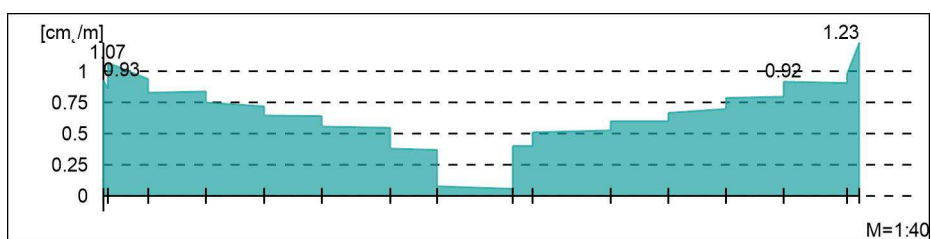


Tragfähigkeitsnachweis: Querkraftausnutzung $V_{Ed} / V_{Rd,max}$

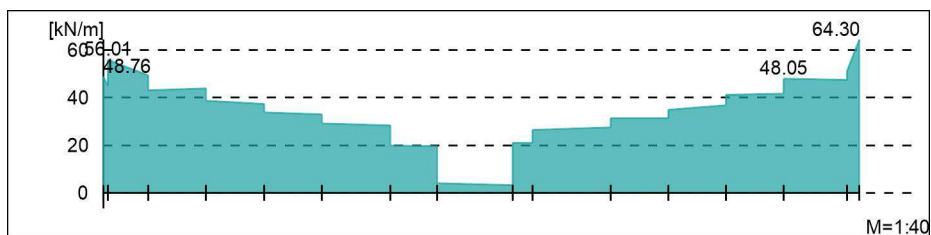


Gurtanschlussbewehrung $[cm^2/m]$:

Erforderliche Gurtanschlussbewehrung as_f



Bemessungslängsschubkraft v_{Ed}

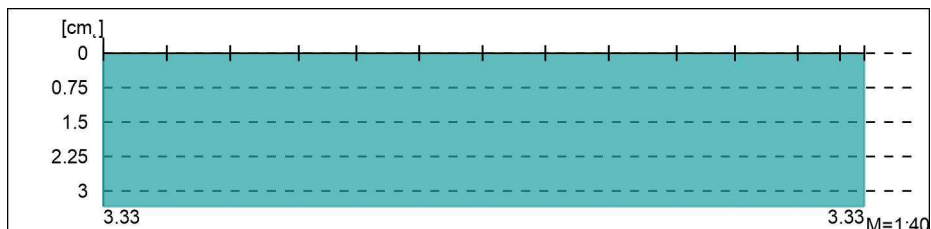


Pos.P-1-11

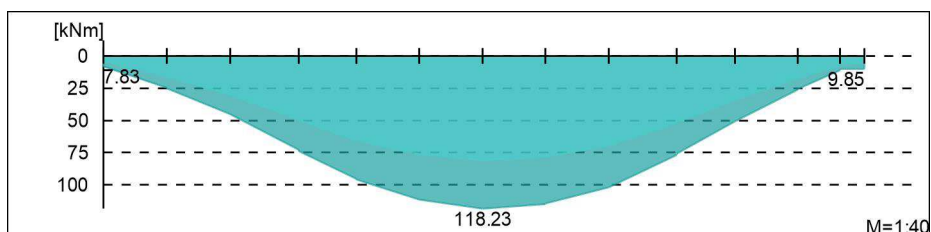
Bemessung im Grenzzustand der Tragfähigkeit

Längsbewehrung

Tragfähigkeitsnachweis: Längsbewehrung As oben / unten

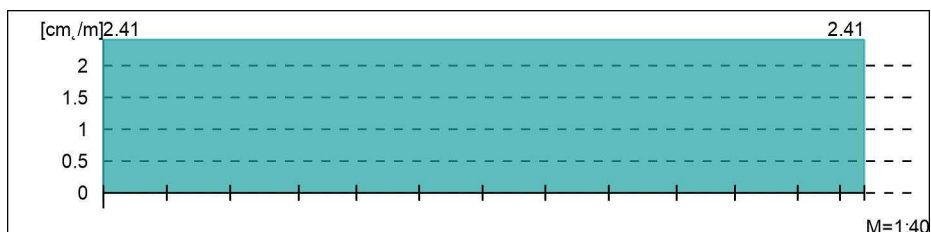


Tragfähigkeitsnachweis: Bemessungsmoment MED

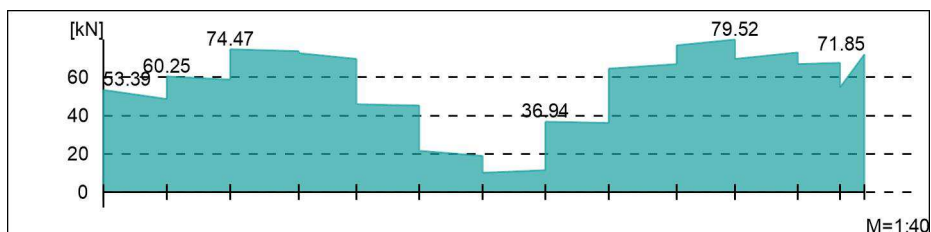


Bügelbewehrung [cm²/m]:

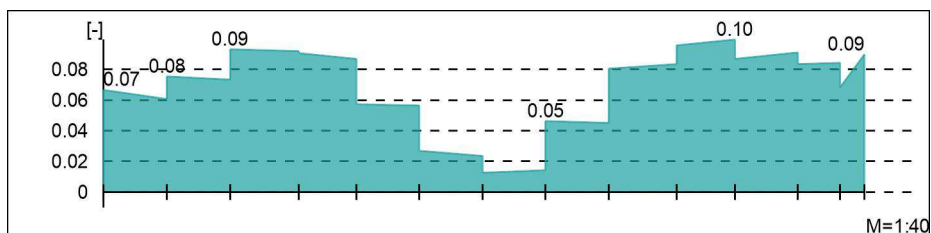
Tragfähigkeitsnachweis: Querkraftbewehrung Asw/sw



Tragfähigkeitsnachweis: Bemessungsquerkraft VEd

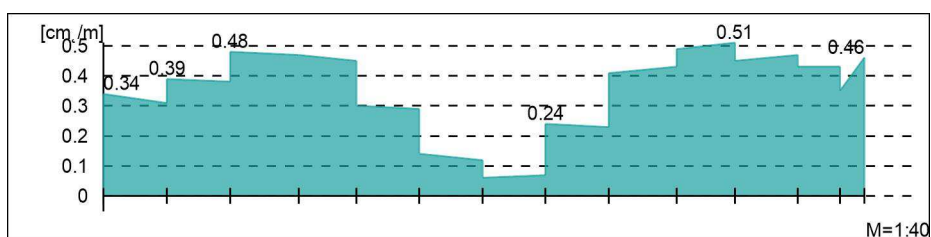


Tragfähigkeitsnachweis: Querkraftausnutzung $V_{Ed} / V_{Rd,max}$

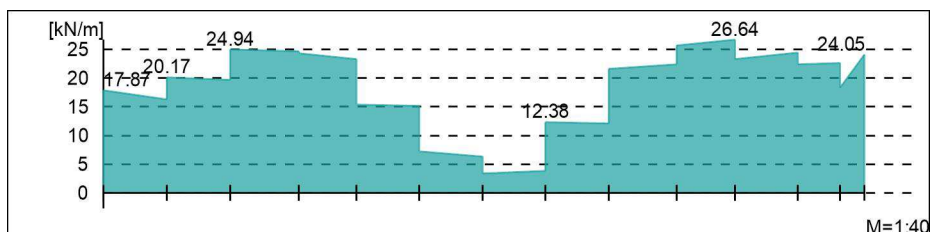


Gurtanschlussbewehrung $[cm^2/m]$:

Erforderliche Gurtanschlussbewehrung asf



Bemessungslängsschubkraft v_{Ed}

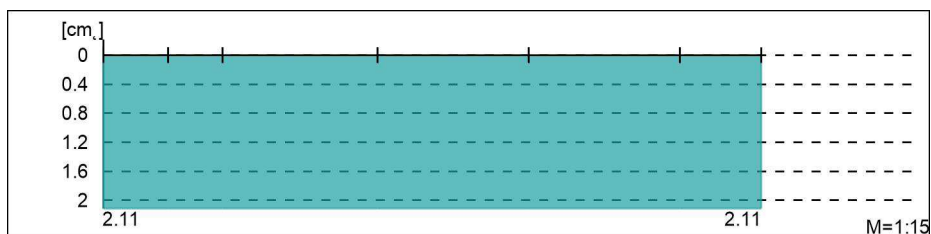


Pos.P-1-12

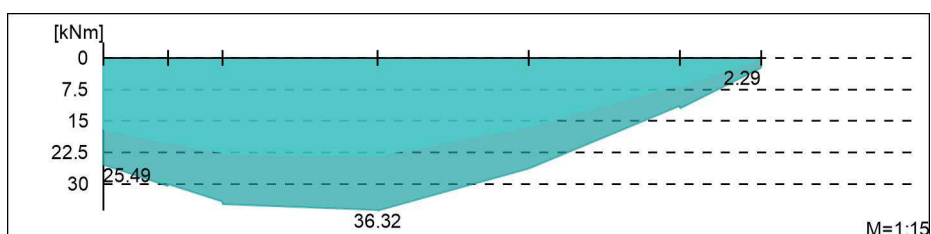
Bemessung im Grenzzustand der Tragfähigkeit

Längsbewehrung

Tragfähigkeitsnachweis: Längsbewehrung As oben / unten

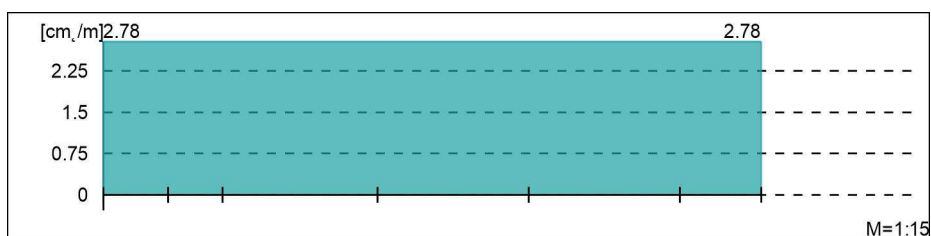


Tragfähigkeitsnachweis: Bemessungsmoment MED

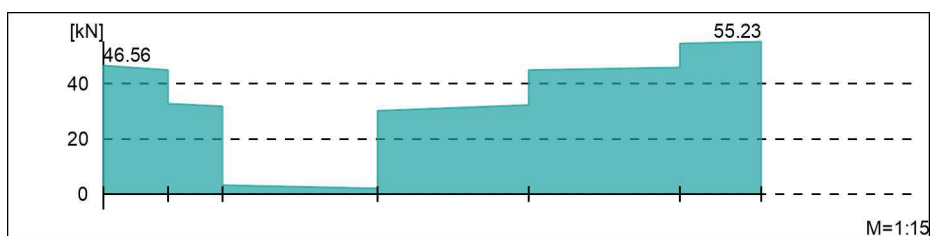


Bügelbewehrung [cm²/m]:

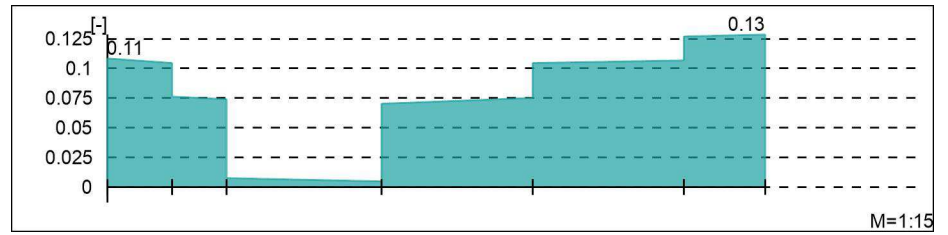
Tragfähigkeitsnachweis: Querkraftbewehrung Asw/sw



Tragfähigkeitsnachweis: Bemessungsquerkraft VEd

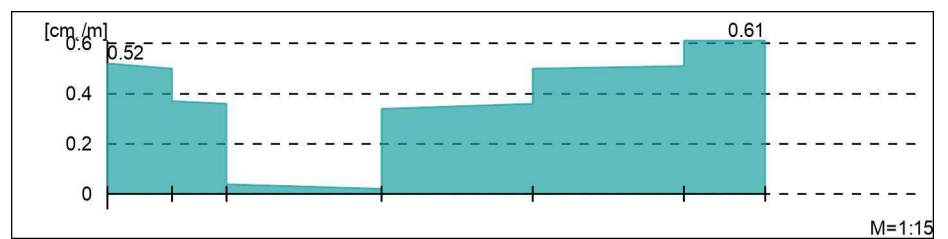


Tragfähigkeitsnachweis: Querkraftausnutzung $V_{Ed} / V_{Rd,max}$

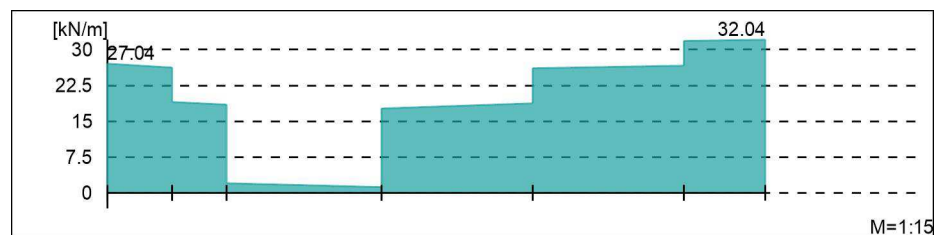


Gurtanschlussbewehrung $[cm^2/m]$:

Erforderliche Gurtanschlussbewehrung as_f



Bemessungslängsschubkraft v_{Ed}

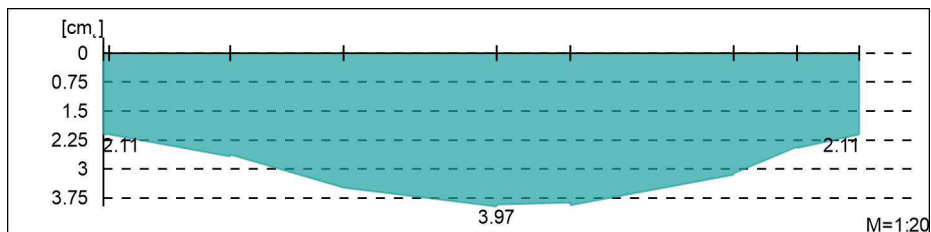


Pos.P-1-13

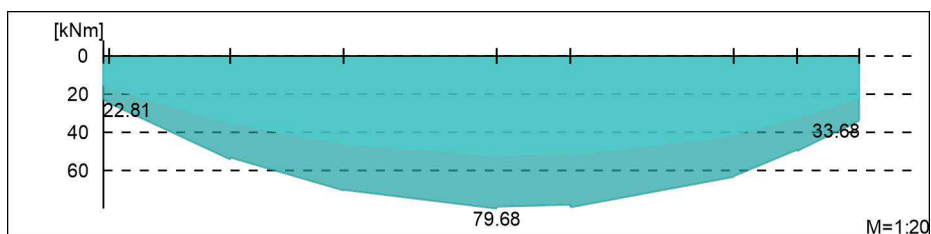
Bemessung im Grenzzustand der Tragfähigkeit

Längsbewehrung

Tragfähigkeitsnachweis: Längsbewehrung As oben / unten

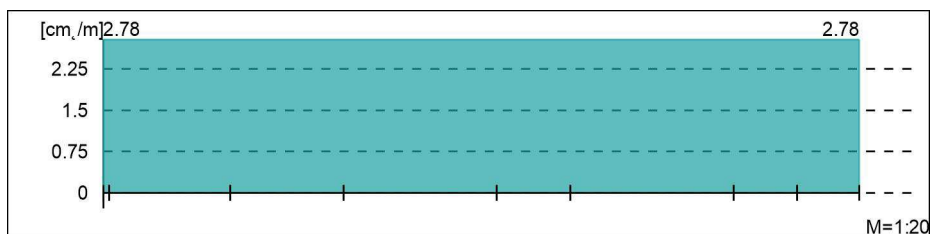


Tragfähigkeitsnachweis: Bemessungsmoment MED

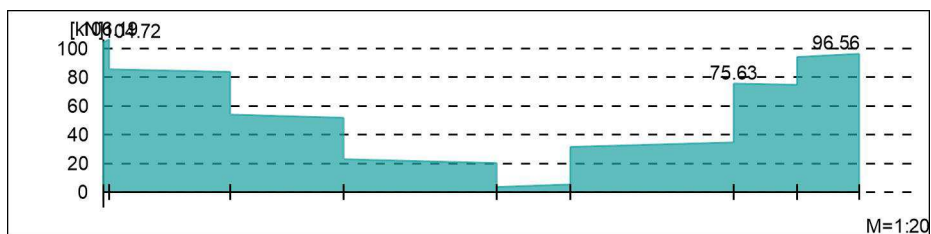


Bügelbewehrung [cm²/m]:

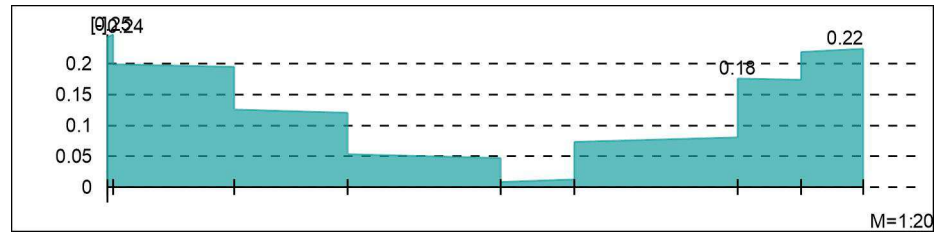
Tragfähigkeitsnachweis: Querkraftbewehrung Asw/sw



Tragfähigkeitsnachweis: Bemessungsquerkraft VEd

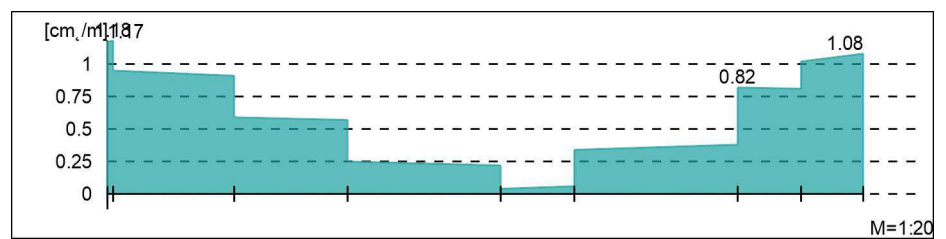


Tragfähigkeitsnachweis: Querkraftausnutzung $V_{Ed} / V_{Rd,max}$

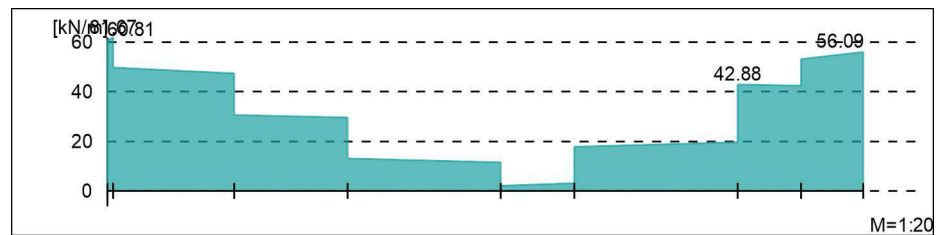


Gurtanschlussbewehrung [cm^2/m]:

Erforderliche Gurtanschlussbewehrung asf



Bemessungslängsschubkraft v_{Ed}

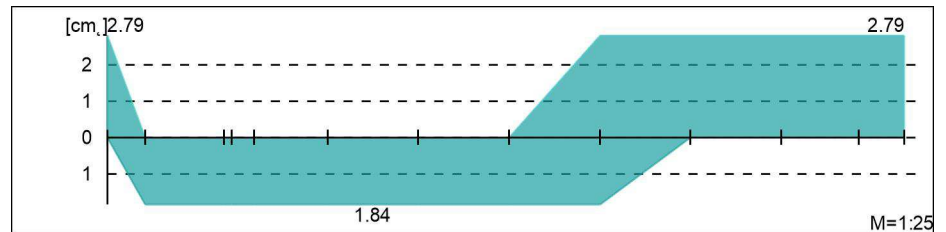


Pos.P-1-14_1

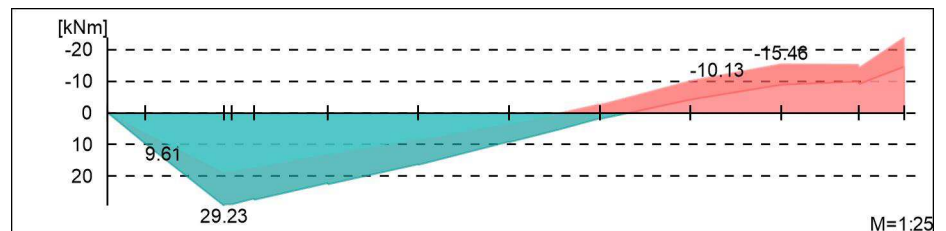
Bemessung im Grenzzustand der Tragfähigkeit

Längsbewehrung

Tragfähigkeitsnachweis: Längsbewehrung As oben / unten

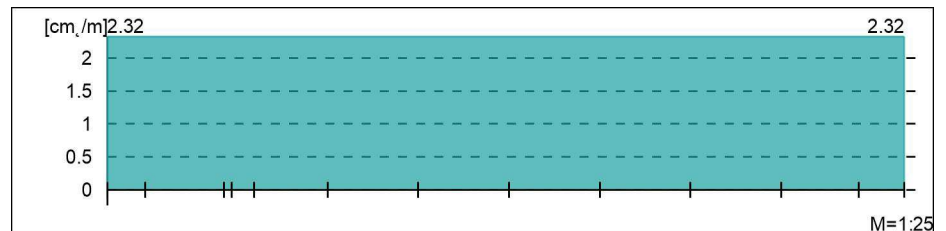


Tragfähigkeitsnachweis: Bemessungsmoment MEd

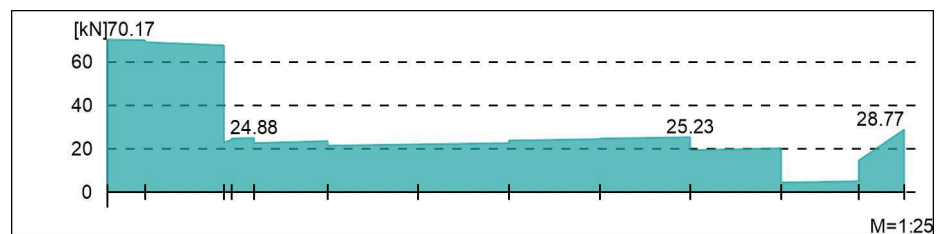


Bügelbewehrung [cm²/m]:

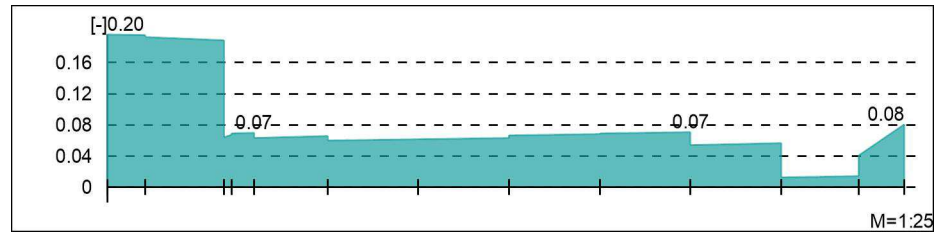
Tragfähigkeitsnachweis: Querkraftbewehrung Asw/sw



Tragfähigkeitsnachweis: Bemessungsquerkraft VEd

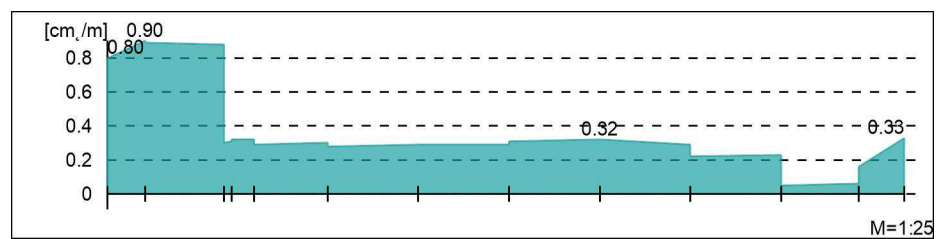


Tragfähigkeitsnachweis: Querkraftausnutzung $V_{Ed} / V_{Rd,max}$

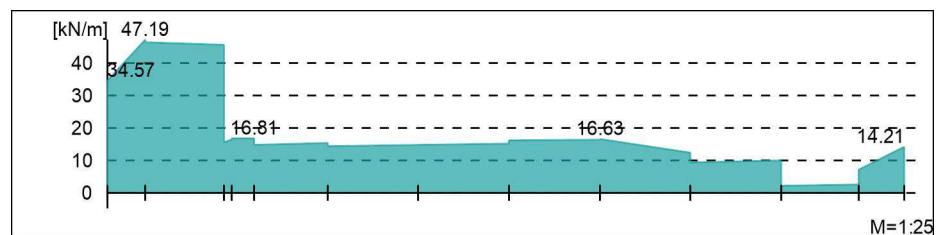


Gurtanschlussbewehrung [cm^2/m]:

Erforderliche Gurtanschlussbewehrung a_{sf}



Bemessungslängsschubkraft v_{Ed}

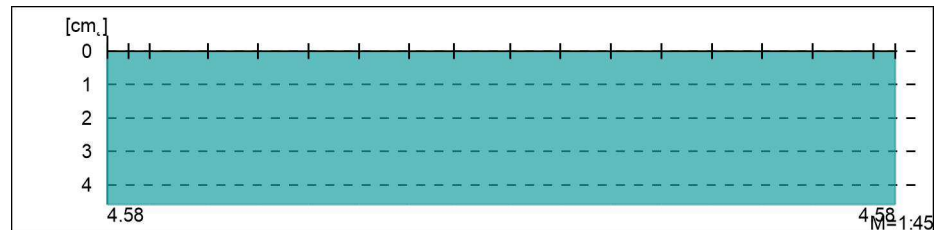


Pos.P-1-14_2

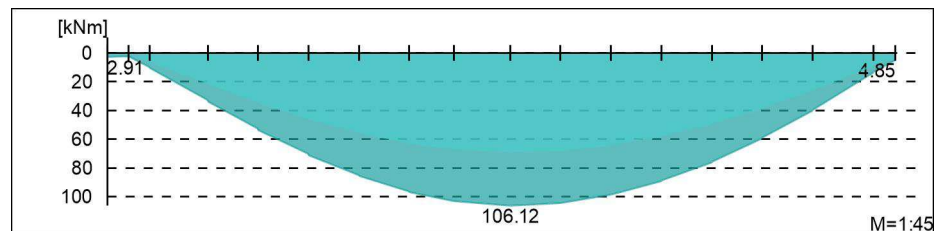
Bemessung im Grenzzustand der Tragfähigkeit

Längsbewehrung

Tragfähigkeitsnachweis: Längsbewehrung As oben / unten

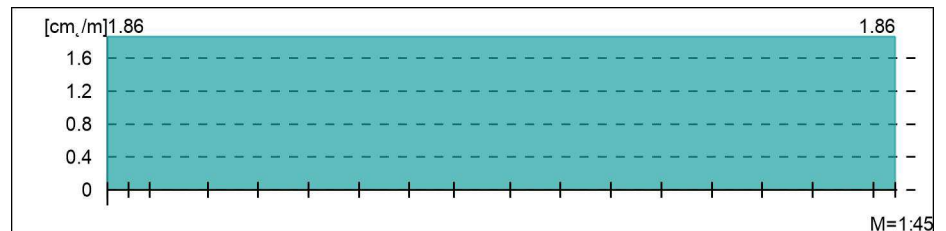


Tragfähigkeitsnachweis: Bemessungsmoment MED

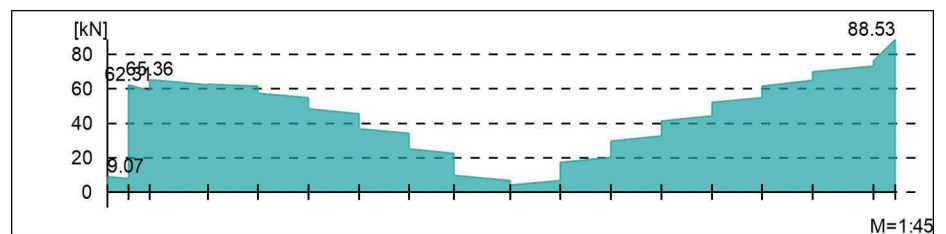


Bügelbewehrung [cm²/m]:

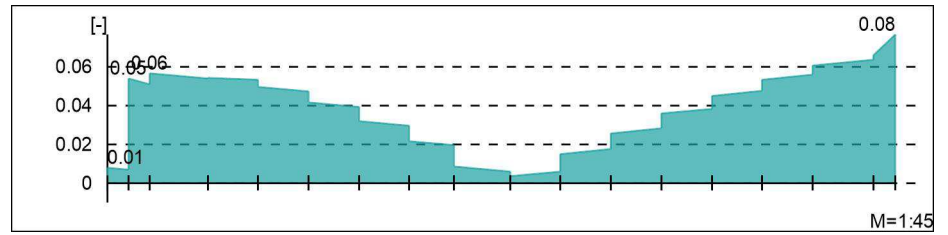
Tragfähigkeitsnachweis: Querkraftbewehrung Asw/sw



Tragfähigkeitsnachweis: Bemessungsquerkraft VEd

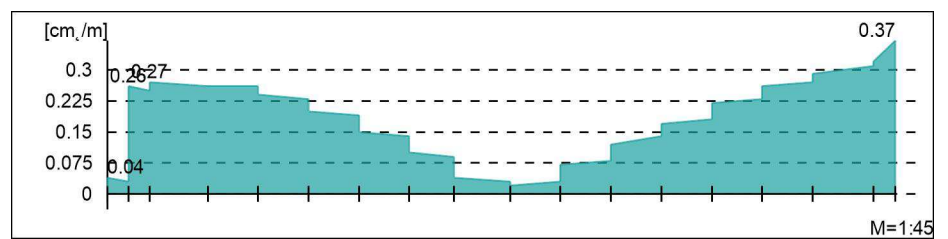


Tragfähigkeitsnachweis: Querkraftausnutzung $V_{Ed} / V_{Rd,max}$

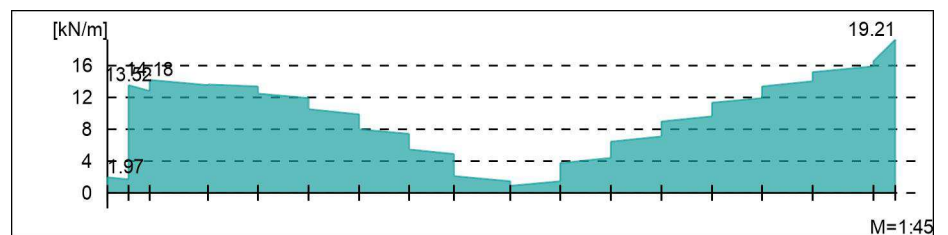


Gurtanschlussbewehrung [cm^2/m]:

Erforderliche Gurtanschlussbewehrung a_{sf}



Bemessungslängsschubkraft v_{Ed}

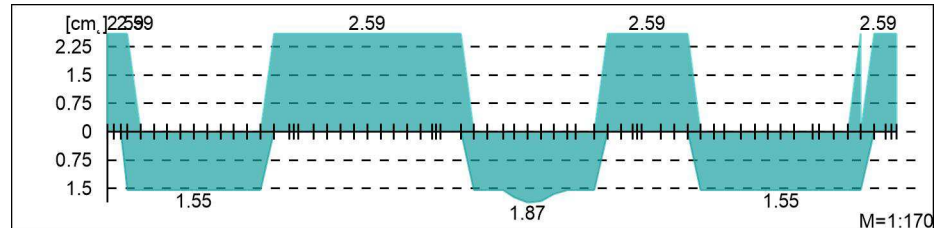


Pos.P-1-15

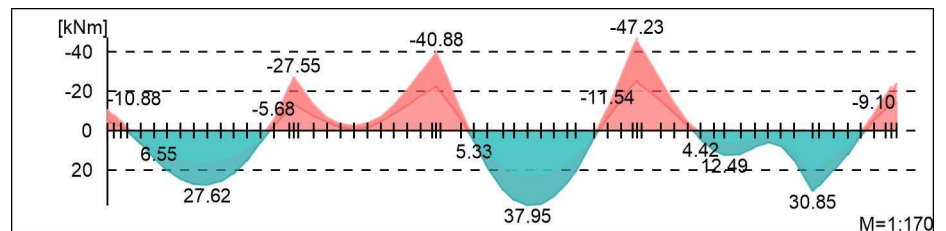
Bemessung im Grenzzustand der Tragfähigkeit

Längsbewehrung

Tragfähigkeitsnachweis: Längsbewehrung As oben / unten

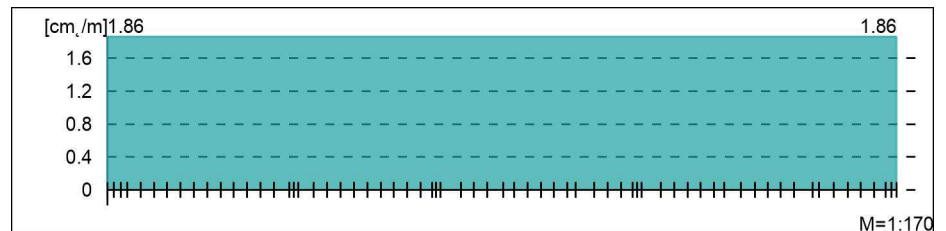


Tragfähigkeitsnachweis: Bemessungsmoment MED

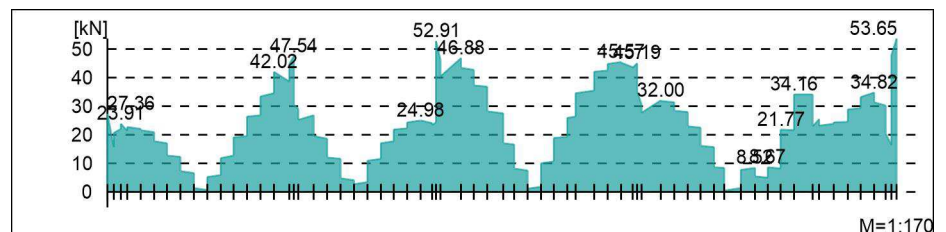


Bügelbewehrung [cm²/m]:

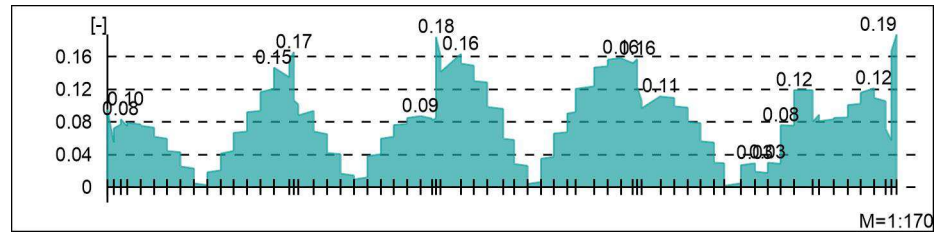
Tragfähigkeitsnachweis: Querkraftbewehrung Asw/sw



Tragfähigkeitsnachweis: Bemessungsquerkraft Ved

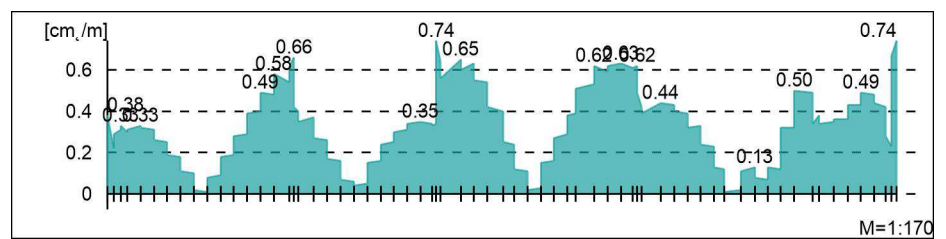


Tragfähigkeitsnachweis: Querkraftausnutzung $V_{Ed} / V_{Rd,max}$

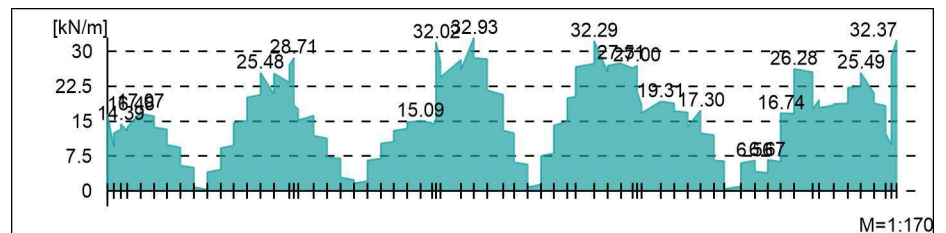


Gurtanschlussbewehrung [cm^2/m]:

Erforderliche Gurtanschlussbewehrung a_{sf}

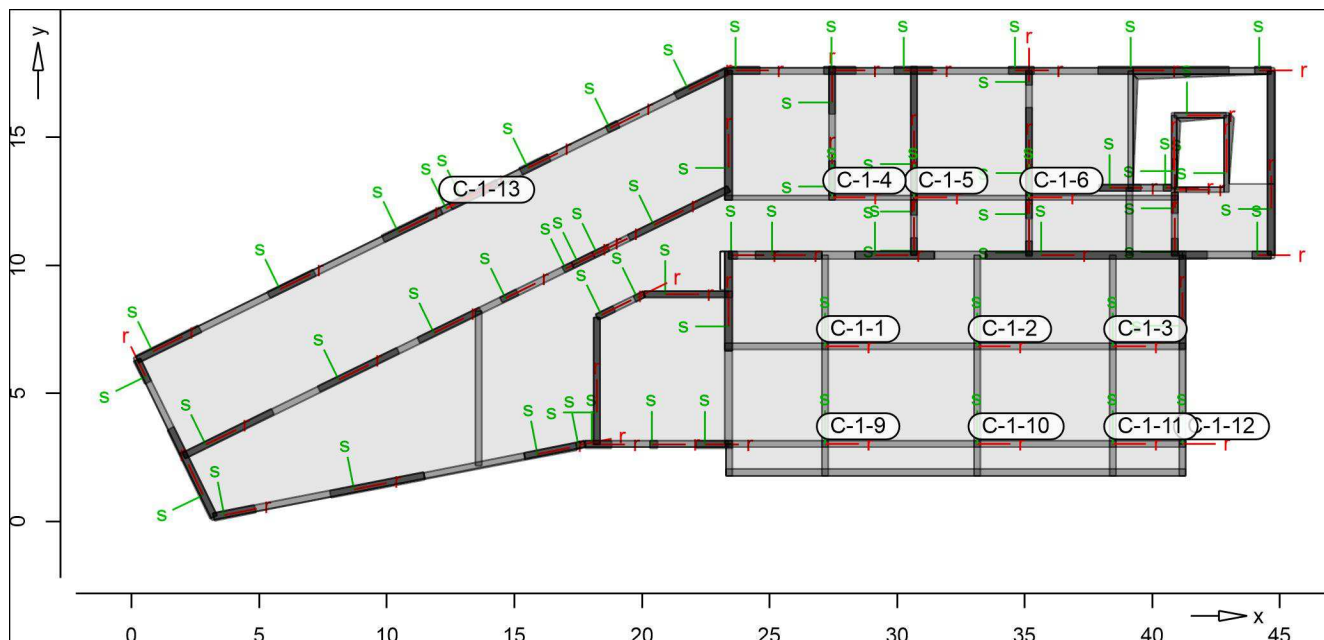


Bemessungslängsschubkraft V_{Ed}



Stützenkräfte je Einwirkung

System



Charakteristische Stützenkräfte
 Auswertung mit MIN/MAX-Überlagerung je Einwirkung

g ständige Einwirkung

Einwirkungen

EW	Beschreibung	Einwirkung
1	Ständige Einwirkung	Gk
2	Veränderliche Einwirkung	Qk.N
3	Schneeeinwirkung	Qk.S
4	Windeinwirkung	Qk.W

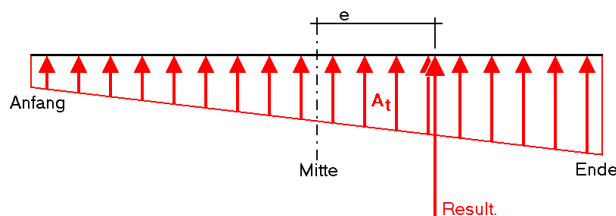
Position	X	Y	EW		Ft	Mr	Ms
C-1-1	27.18	6.83	1	g	334.30	0.23	-0.44
			2	min	-1.09	-0.11	-0.21
				max	37.67	0.00	0.00
			3	min	0.00	0.00	0.00
				max	15.73	0.03	0.01
			4	min	0.00	0.00	0.00
				max	0.00	0.00	0.00
C-1-2	33.13	6.83	1	g	416.75	0.67	0.05
			2	min	-0.81	-0.10	0.00
				max	43.30	0.00	0.08
			3	min	0.00	0.00	0.00
				max	20.18	0.06	0.00
			4	min	0.00	0.00	0.00
				max	0.00	0.00	0.00
C-1-3	38.45	6.83	1	g	309.13	-0.29	1.26
			2	min	-1.24	-0.10	0.00
				max	31.13	0.00	0.22
			3	min	0.00	0.00	0.00
				max	14.87	0.01	0.03

Position	X	Y	EW		Ft	Mr	Ms
C-1-4	27.45	12.64	4	min	0.00	0.00	0.00
				max	0.00	0.00	0.00
			1	g	128.75	-0.18	0.58
			2	min	0.00	-0.07	0.00
				max	18.24	0.03	0.12
			3	min	0.00	-0.03	0.00
				max	6.97	0.00	0.01
			4	min	0.00	0.00	0.00
C-1-5	30.65	12.64		max	0.00	0.00	0.00
			1	g	110.92	-0.14	-0.69
			2	min	0.00	-0.05	-0.11
				max	13.46	0.02	0.00
			3	min	0.00	-0.01	-0.01
				max	6.51	0.00	0.00
			4	min	0.00	0.00	0.00
				max	0.00	0.00	0.00
C-1-6	35.17	12.64	1	g	119.92	0.05	0.41
			2	min	0.00	-0.04	0.00
				max	14.53	0.02	0.05
			3	min	0.00	-0.01	0.00
				max	6.99	0.00	0.01
			4	min	0.00	0.00	0.00
				max	0.00	0.00	0.00
C-1-9	27.18	3.03	1	g	425.66	-4.59	-0.66
			2	min	0.00	-0.01	-0.16
				max	33.39	0.16	0.00
			3	min	0.00	-0.24	-0.01
				max	14.61	0.00	0.00
			4	min	0.00	0.00	0.00
				max	0.00	0.00	0.00
C-1-10	33.13	3.03	1	g	472.33	-5.16	-0.35
			2	min	-0.04	-0.01	0.00
				max	37.61	0.15	0.06
			3	min	0.00	-0.30	-0.04
				max	16.84	0.00	0.00
			4	min	0.00	0.00	0.00
				max	0.00	0.00	0.00
C-1-11	38.45	3.03	1	g	337.72	-2.90	2.42
			2	min	0.00	0.00	0.00
				max	26.51	0.14	0.19
			3	min	0.00	-0.18	0.00
				max	11.67	0.00	0.10
			4	min	0.00	0.00	0.00
				max	0.00	0.00	0.00
C-1-12	41.18	3.03	1	g	180.14	0.52	0.64
			2	min	-0.15	-0.01	0.00
				max	6.55	0.07	0.14
			3	min	0.00	0.00	0.00
				max	3.81	0.02	0.03
			4	min	0.00	0.00	0.00
				max	0.00	0.00	0.00
C-1-13	12.32	12.22	1	g	56.28	-6.14	-0.18
			2	min	0.00	-0.99	-0.03
				max	11.06	0.69	0.01
			3	min	0.00	-0.14	0.00
				max	1.47	0.00	0.00
			4	min	0.00	0.00	0.00
				max	0.00	0.00	0.00

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4	Windeinwirkung	Qk.W

Linienlager-Auswertung je Einwirkung - Auflagergröße Ft



Charakteristische Linienlagerkräfte
 aus MIN/MAX-Überlagerung je Einwirkung

Result. Resultierende Gesamtauflagerkraft
 e Abstand der Resultierenden zur Mitte
 des Polygonabschnitts
 g ständige Einwirkung

Reihenfolge der Ausgabe: min Ft Mitte
 max Ft Mitte

Position	Länge [m]	EW		----- Ft [kN/m] -----		Result. [kN]	e [m]
				Anfang	Mitte	Ende	
C-1-7	0.90	1	g	431.201	372.374	313.547	335.136 -0.02
		2	min	0.000	0.000	0.000	0.000 0.00
			max	44.580	39.029	33.478	35.126 -0.02
		3	min	0.000	0.000	0.000	0.000 0.00
			max	24.680	22.060	19.441	19.854 -0.02
		4	min	0.000	0.000	0.000	0.000 0.00
			max	0.000	0.000	0.000	0.000 0.00
C-1-8	0.35	1	g	308.494	289.212	269.929	101.224 0.00
		2	min	0.000	0.000	0.000	0.000 0.00
			max	7.395	5.696	3.998	1.994 -0.02
		3	min	0.000	0.000	0.000	0.000 0.00
			max	21.429	20.757	20.085	7.265 0.00
		4	min	0.000	0.000	0.000	0.000 0.00
			max	0.000	0.000	0.000	0.000 0.00
W-1	2.74	1	g	31.998	88.966	145.934	243.989 0.29
		2	min	0.100	-0.073	-0.245	-0.200 1.08
			max	-0.653	5.148	10.948	14.117 0.52
		3	min	0.000	0.000	0.000	0.000 0.00
			max	-0.206	2.334	4.874	6.400 0.50
		4	min	0.000	0.000	0.000	0.000 0.00
			max	0.000	0.000	0.000	0.000 0.00
W-2	2.00	1	g	139.502	128.529	117.556	257.058 -0.03
		2	min	-0.156	-0.489	-0.821	-0.978 0.23
			max	9.896	8.856	7.815	17.711 -0.04
		3	min	0.000	0.000	0.000	0.000 0.00
			max	4.662	4.222	3.781	8.443 -0.03
		4	min	0.000	0.000	0.000	0.000 0.00
			max	0.000	0.000	0.000	0.000 0.00
W-3	2.53	1	g	130.535	68.686	6.836	173.932 -0.38

Position	Länge [m]	EW	----- Anfang	Ft [kN/m] Mitte	----- Ende	Result. [kN]	e [m]
		2 min	0.000	0.000	0.000	0.000	0.00
		max	7.560	5.003	2.446	12.669	-0.22
		3 min	0.000	0.000	0.000	0.000	0.00
		max	3.978	2.108	0.239	5.339	-0.37
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-4	2.07	1 g	20.151	47.797	75.443	98.773	0.20
		2 min	0.000	0.000	0.000	0.000	0.00
		max	3.398	4.332	5.267	8.953	0.07
		3 min	0.000	0.000	0.000	0.000	0.00
		max	0.605	1.420	2.236	2.935	0.20
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-5	1.25	1 g	81.808	126.777	171.745	158.624	0.07
		2 min	0.000	0.000	0.000	0.000	0.00
		max	10.284	17.213	24.143	21.537	0.08
		3 min	0.000	0.000	0.000	0.000	0.00
		max	2.322	4.100	5.878	5.130	0.09
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-6	0.50	1 g	291.311	285.214	279.116	142.611	0.00
		2 min	0.000	0.000	0.000	0.000	0.00
		max	24.811	23.774	22.737	11.887	0.00
		3 min	0.000	0.000	0.000	0.000	0.00
		max	9.899	9.484	9.070	4.742	0.00
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-7	2.25	1 g	117.384	58.934	0.483	132.731	-0.37
		2 min	-0.538	-0.198	0.142	-0.446	-0.64
		max	7.337	2.494	-2.350	5.616	-0.73
		3 min	0.000	0.000	0.000	0.000	0.00
		max	3.089	1.215	-0.659	2.736	-0.58
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-8	1.28	1 g	16.500	70.317	124.134	90.305	0.16
		2 min	0.000	0.000	0.000	0.000	0.00
		max	-0.886	2.856	6.599	3.668	0.28
		3 min	0.000	0.000	0.000	0.000	0.00
		max	-0.182	1.621	3.425	2.082	0.24
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-9	1.25	1 g	92.427	71.385	50.343	89.231	-0.06
		2 min	-0.028	-0.060	-0.093	-0.075	0.11
		max	4.107	2.540	0.973	3.175	-0.13
		3 min	0.000	0.000	0.000	0.000	0.00
		max	3.455	3.056	2.658	3.821	-0.03
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-10	1.50	1 g	43.251	82.328	121.405	123.492	0.12
		2 min	-0.067	-0.053	-0.038	-0.079	-0.07
		max	0.488	3.023	5.559	4.535	0.21
		3 min	0.000	0.000	0.000	0.000	0.00
		max	2.367	3.891	5.415	5.836	0.10
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-11	1.00	1 g	147.671	135.095	122.519	135.095	-0.02
		2 min	-0.173	-0.203	-0.233	-0.203	0.02
		max	7.385	6.542	5.699	6.542	-0.02
		3 min	0.000	0.000	0.000	0.000	0.00

Position	Länge [m]	EW	----- Anfang	Ft [kN/m] Mitte	----- Ende	Result. [kN]	e [m]
W-12	5.15	max	6.579	5.832	5.085	5.832	-0.02
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		1 g	108.525	61.069	13.613	314.505	-0.67
		2 min	0.000	0.000	0.000	0.000	0.00
		max	5.730	2.281	-1.169	11.745	-1.30
		3 min	0.000	0.000	0.000	0.000	0.00
		max	3.064	1.418	-0.228	7.303	-1.00
		4 min	0.000	0.000	0.000	0.000	0.00
W-13	0.65	max	0.000	0.000	0.000	0.000	0.00
		1 g	39.073	38.913	38.753	25.293	0.00
		2 min	0.014	-0.009	-0.032	-0.006	0.28
		max	0.845	0.745	0.644	0.484	-0.01
		3 min	0.000	0.000	0.000	0.000	0.00
		max	0.522	0.567	0.612	0.368	0.01
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-14	7.22	1 g	36.613	37.640	38.668	271.761	0.03
		2 min	0.000	0.000	0.000	0.000	0.00
		max	5.437	2.056	-1.324	14.847	-1.98
		3 min	0.000	0.000	0.000	0.000	0.00
		max	0.542	0.692	0.842	4.997	0.26
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-15	2.60	1 g	79.750	103.365	126.980	268.749	0.10
		2 min	0.000	0.000	0.000	0.000	0.00
		max	10.803	12.790	14.778	33.255	0.07
		3 min	0.000	0.000	0.000	0.000	0.00
		max	2.781	3.830	4.878	9.957	0.12
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-16	3.10	1 g	70.524	109.535	148.546	339.908	0.18
		2 min	0.000	0.000	0.000	0.000	0.00
		max	12.075	13.326	14.577	41.353	0.05
		3 min	0.000	0.000	0.000	0.000	0.00
		max	2.195	4.045	5.896	12.553	0.24
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-17	8.70	1 g	103.272	73.900	44.528	643.090	-0.58
		2 min	0.000	0.000	0.000	0.000	0.00
		max	12.632	10.234	7.835	89.056	-0.34
		3 min	0.000	0.000	0.000	0.000	0.00
		max	4.319	2.693	1.067	23.434	-0.88
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-18	0.75	1 g	89.543	68.517	47.490	51.387	-0.04
		2 min	0.000	0.000	0.000	0.000	0.00
		max	13.747	11.854	9.961	8.890	-0.02
		3 min	0.000	0.000	0.000	0.000	0.00
		max	1.018	0.658	0.297	0.493	-0.07
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-19	3.68	1 g	82.826	59.501	36.176	219.111	-0.24
		2 min	0.000	0.000	0.000	0.000	0.00
		max	3.365	4.046	4.728	14.900	0.10
		3 min	0.000	0.000	0.000	0.000	0.00
		max	1.984	1.555	1.125	5.725	-0.17
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00

Position	Länge [m]	EW	----- Anfang	Ft [kN/m] Mitte	----- Ende	Result. [kN]	e [m]
W-20	3.85	1 g	10.226	41.200	72.174	158.633	0.48
		2 min	0.000	0.000	0.000	0.000	0.00
		max	-0.154	2.168	4.490	8.346	0.69
		3 min	0.000	0.000	0.000	0.000	0.00
		max	-0.231	0.708	1.646	2.725	0.85
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-21	1.00	1 g	72.854	63.926	54.998	64.053	-0.02
		2 min	0.000	0.000	0.000	0.000	0.00
		max	2.624	1.726	0.828	1.729	-0.09
		3 min	0.000	0.000	0.000	0.000	0.00
		max	0.948	0.691	0.434	0.693	-0.06
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-22	1.66	1 g	5.362	85.194	165.027	141.694	0.26
		2 min	-0.274	-0.084	0.106	-0.139	-0.63
		max	-1.453	4.253	9.959	7.074	0.37
		3 min	0.000	0.000	0.000	0.000	0.00
		max	-0.564	2.192	4.947	3.645	0.35
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-23	3.75	1 g	69.185	112.274	155.364	421.026	0.24
		2 min	0.000	0.000	0.000	0.000	0.00
		max	5.597	8.416	11.236	31.560	0.21
		3 min	0.000	0.000	0.000	0.000	0.00
		max	1.819	3.331	4.844	12.492	0.28
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-24	2.07	1 g	168.063	101.355	34.647	210.011	-0.23
		2 min	0.000	0.000	0.000	0.000	0.00
		max	16.239	7.769	-0.701	16.098	-0.38
		3 min	0.000	0.000	0.000	0.000	0.00
		max	3.790	3.469	3.148	7.188	-0.03
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-25	1.05	1 g	36.778	36.839	36.900	38.548	0.00
		2 min	-0.072	-0.320	-0.568	-0.335	0.14
		max	-0.120	0.352	0.824	0.368	0.23
		3 min	0.000	0.000	0.000	0.000	0.00
		max	3.126	2.453	1.781	2.567	-0.05
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-26	0.30	1 g	95.989	97.781	99.572	29.357	0.00
		2 min	-0.794	-0.787	-0.779	-0.236	0.00
		max	8.670	8.895	9.120	2.671	0.00
		3 min	0.000	0.000	0.000	0.000	0.00
		max	1.682	1.707	1.731	0.512	0.00
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-27	1.44	1 g	153.041	229.501	305.961	330.406	0.08
		2 min	-0.325	-0.180	-0.035	-0.259	-0.19
		max	10.032	13.040	16.048	18.773	0.06
		3 min	0.000	0.000	0.000	0.000	0.00
		max	4.262	7.404	10.545	10.659	0.10
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-28	3.89	1 g	198.086	104.985	11.883	408.369	-0.57
		2 min	0.000	0.000	0.000	0.000	0.00
		max	14.165	8.930	3.696	34.737	-0.38

Position	Länge [m]	EW	----- Ft [kN/m] -----			Result.	e
			Anfang	Mitte	Ende	[kN]	[m]
w-29	5.07	3 min	0.000	0.000	0.000	0.000	0.00
		max	6.652	3.824	0.995	14.873	-0.48
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		1 g	132.078	96.998	61.918	491.781	-0.31
		2 min	0.000	0.000	0.000	0.000	0.00
w-30	0.35	max	13.001	7.572	2.144	38.392	-0.61
		3 min	0.000	0.000	0.000	0.000	0.00
		max	5.952	3.582	1.212	18.161	-0.56
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		1 g	62.198	65.141	68.084	22.799	0.00
w-31	3.89	2 min	0.000	0.000	0.000	0.000	0.00
		max	11.161	11.192	11.224	3.917	0.00
		3 min	0.000	0.000	0.000	0.000	0.00
		max	2.452	2.521	2.589	0.882	0.00
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
w-32	3.45	1 g	27.467	123.273	219.079	479.931	0.50
		2 min	0.000	0.000	0.000	0.000	0.00
		max	0.464	10.951	21.438	42.636	0.62
		3 min	0.000	0.000	0.000	0.000	0.00
		max	0.144	4.654	9.164	18.121	0.63
		4 min	0.000	0.000	0.000	0.000	0.00
w-33	2.70	max	0.000	0.000	0.000	0.000	0.00
		1 g	202.438	166.537	130.636	574.098	-0.12
		2 min	0.000	0.000	0.000	0.000	0.00
		max	23.584	20.271	16.959	69.881	-0.09
		3 min	0.000	0.000	0.000	0.000	0.00
		max	8.388	6.831	5.274	23.549	-0.13
w-34	0.71	4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		1 g	170.224	194.511	218.798	525.231	0.06
		2 min	0.000	0.000	0.000	0.000	0.00
		max	18.998	21.487	23.975	58.019	0.05
		3 min	0.000	0.000	0.000	0.000	0.00
w-35	0.42	max	7.321	8.432	9.542	22.768	0.06
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		1 g	248.964	245.104	241.244	174.533	0.00
		2 min	0.000	0.000	0.000	0.000	0.00
		max	28.524	28.477	28.429	20.278	0.00
w-36	0.65	3 min	0.000	0.000	0.000	0.000	0.00
		max	10.824	10.570	10.317	7.527	0.00
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		1 g	90.917	77.881	64.845	32.391	-0.01
		2 min	0.000	0.000	0.000	0.000	0.00
w-37	0.42	max	11.067	9.125	7.184	3.795	-0.01
		3 min	0.000	0.000	0.000	0.000	0.00
		max	4.246	3.857	3.468	1.604	-0.01
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		1 g	43.774	45.451	47.128	29.695	0.00
w-38	0.65	2 min	0.000	0.000	0.000	0.000	0.00
		max	5.292	6.601	7.910	4.313	0.02
		3 min	0.000	0.000	0.000	0.000	0.00
		max	2.501	2.253	2.004	1.472	-0.01
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00

Position	Länge [m]	EW	----- Ft [kN/m] -----			Result. [kN]	e [m]
			Anfang	Mitte	Ende		
W-37	4.35	max	0.000	0.000	0.000	0.000	0.00
		1 g	41.375	60.149	78.924	261.893	0.23
		2 min	0.000	0.000	0.000	0.000	0.00
		max	13.170	10.922	8.675	47.556	-0.15
		3 min	0.000	0.000	0.000	0.000	0.00
		max	-0.119	1.652	3.423	7.192	0.78
W-38	1.64	4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		1 g	108.347	96.758	85.169	159.131	-0.03
		2 min	0.000	0.000	0.000	0.000	0.00
		max	16.877	15.563	14.249	25.595	-0.02
		3 min	0.000	0.000	0.000	0.000	0.00
W-39	0.32	max	3.487	3.657	3.827	6.015	0.01
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		1 g	34.708	30.299	25.889	9.707	-0.01
		2 min	0.000	0.000	0.000	0.000	0.00
		max	6.819	5.948	5.076	1.906	-0.01
W-40	1.34	3 min	0.000	0.000	0.000	0.000	0.00
		max	1.512	1.321	1.130	0.423	-0.01
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		1 g	80.115	80.523	80.932	107.876	0.00
		2 min	0.000	0.000	0.000	0.000	0.00
W-41	1.85	max	11.014	11.950	12.887	16.009	0.02
		3 min	0.000	0.000	0.000	0.000	0.00
		max	4.263	2.956	1.650	3.960	-0.10
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		1 g	79.879	68.631	57.383	127.126	-0.05
W-42	0.68	2 min	-0.492	-0.249	-0.007	-0.462	-0.30
		max	13.549	7.630	1.711	14.133	-0.24
		3 min	0.000	0.000	0.000	0.000	0.00
		max	0.517	1.469	2.421	2.720	0.20
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-43	0.59	1 g	99.155	89.349	79.543	60.758	-0.01
		2 min	0.000	0.000	0.000	0.000	0.00
		max	10.745	10.519	10.294	7.153	0.00
		3 min	0.000	0.000	0.000	0.000	0.00
		max	3.839	3.790	3.741	2.577	0.00
		4 min	0.000	0.000	0.000	0.000	0.00
W-44	4.87	max	0.000	0.000	0.000	0.000	0.00
		1 g	74.996	74.540	74.085	43.979	0.00
		2 min	0.000	0.000	0.000	0.000	0.00
		max	10.170	9.667	9.164	5.704	-0.01
		3 min	0.000	0.000	0.000	0.000	0.00
		max	4.337	4.374	4.411	2.581	0.00
W-45	0.61	4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		1 g	56.704	51.643	46.581	251.499	-0.08
		2 min	0.000	0.000	0.000	0.000	0.00
		max	9.102	6.813	4.523	33.178	-0.27
		3 min	0.000	0.000	0.000	0.000	0.00
W-45	0.61	max	2.174	1.405	0.635	6.840	-0.44
		4 min	0.000	0.000	0.000	0.000	0.00
W-45	0.61	max	0.000	0.000	0.000	0.000	0.00
		1 g	65.094	61.059	57.024	36.980	-0.01
W-45	0.61	2 min	0.000	0.000	0.000	0.000	0.00

Position	Länge [m]	EW	----- Anfang	Ft [kN/m] Mitte	----- Ende	Result. [kN]	e [m]
		max	7.803	8.213	8.623	4.974	0.01
		3 min	0.000	0.000	0.000	0.000	0.00
		max	2.564	2.672	2.780	1.618	0.00
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-46	0.71	1 g	68.055	73.287	78.518	52.023	0.01
		2 min	0.000	0.000	0.000	0.000	0.00
		max	10.255	10.006	9.757	7.103	0.00
		3 min	0.000	0.000	0.000	0.000	0.00
		max	4.040	4.370	4.700	3.102	0.01
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-47	3.41	1 g	70.516	74.784	79.052	255.103	0.03
		2 min	0.000	0.000	0.000	0.000	0.00
		max	8.536	9.719	10.901	33.152	0.07
		3 min	0.000	0.000	0.000	0.000	0.00
		max	3.754	1.803	-0.149	6.149	-0.62
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-48	0.58	1 g	102.069	103.656	105.242	59.996	0.00
		2 min	-0.239	-0.216	-0.192	-0.125	-0.01
		max	8.082	6.773	5.463	3.920	-0.02
		3 min	0.000	0.000	0.000	0.000	0.00
		max	3.118	3.689	4.260	2.135	0.01
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-49	0.70	1 g	48.912	48.763	48.614	34.281	0.00
		2 min	0.000	0.000	0.000	0.000	0.00
		max	5.849	7.232	8.615	5.084	0.02
		3 min	0.000	0.000	0.000	0.000	0.00
		max	1.734	1.700	1.667	1.195	0.00
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-50	0.83	1 g	41.088	32.479	23.871	26.953	-0.04
		2 min	0.000	0.000	0.000	0.000	0.00
		max	9.605	7.348	5.091	6.098	-0.04
		3 min	0.000	0.000	0.000	0.000	0.00
		max	1.408	1.188	0.969	0.986	-0.03
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-51	4.97	1 g	53.068	60.569	68.069	301.134	0.10
		2 min	0.000	0.000	0.000	0.000	0.00
		max	5.840	9.849	13.858	48.968	0.34
		3 min	0.000	0.000	0.000	0.000	0.00
		max	1.340	0.835	0.330	4.152	-0.50
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-52	0.76	1 g	61.168	63.618	66.068	48.478	0.00
		2 min	0.000	0.000	0.000	0.000	0.00
		max	10.401	9.323	8.245	7.104	-0.01
		3 min	0.000	0.000	0.000	0.000	0.00
		max	1.757	2.324	2.892	1.771	0.03
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-53	0.42	1 g	95.029	95.795	96.562	40.708	0.00
		2 min	0.000	0.000	0.000	0.000	0.00
		max	9.519	9.643	9.768	4.098	0.00
		3 min	0.000	0.000	0.000	0.000	0.00
		max	5.470	5.582	5.694	2.372	0.00

Position	Länge [m]	EW	----- Ft [kN/m] -----			Result.	e
			Anfang	Mitte	Ende	[kN]	[m]
W-54	3.32	4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
		1 g	98.332	77.824	57.316	258.073	-0.15
		2 min	0.000	0.000	0.000	0.000	0.00
		max	11.565	8.412	5.259	27.895	-0.21
		3 min	0.000	0.000	0.000	0.000	0.00
		max	5.708	3.775	1.842	12.517	-0.28
		4 min	0.000	0.000	0.000	0.000	0.00
W-55	2.90	max	0.000	0.000	0.000	0.000	0.00
		1 g	82.370	62.835	43.300	182.222	-0.15
		2 min	0.000	0.000	0.000	0.000	0.00
		max	11.814	4.261	-3.291	12.358	-0.86
		3 min	0.000	0.000	0.000	0.000	0.00
		max	3.872	3.550	3.227	10.294	-0.04
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-56	3.00	1 g	91.898	55.749	19.600	167.247	-0.32
		2 min	0.000	0.000	0.000	0.000	0.00
		max	13.617	4.727	-4.162	14.182	-0.94
		3 min	0.000	0.000	0.000	0.000	0.00
		max	3.304	2.228	1.152	6.684	-0.24
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-57	2.07	1 g	51.818	42.233	32.648	87.421	-0.08
		2 min	0.000	0.000	0.000	0.000	0.00
		max	0.419	0.419	0.418	0.867	0.00
		3 min	0.000	0.000	0.000	0.000	0.00
		max	3.317	2.265	1.213	4.688	-0.16
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00
W-58	0.47	1 g	105.553	94.838	84.122	44.574	-0.01
		2 min	0.000	0.000	0.000	0.000	0.00
		max	19.721	17.454	15.187	8.203	-0.01
		3 min	0.000	0.000	0.000	0.000	0.00
		max	4.591	4.039	3.487	1.898	-0.01
		4 min	0.000	0.000	0.000	0.000	0.00
		max	0.000	0.000	0.000	0.000	0.00

H.3 Konstrukce schodiště

Schodiště je řešeno jako dvakrát zalomená deska.

Zatížení na schodiště

Zatížení stálé

Zatížení plošné	kN / m ²	normové	γ_u	výpočtové
Nášlapná vrstva	0,02*22	0,44	1,35	0,59
Schodišťové stupně	0,075*24	1,80	1,35	2,43
Rameno	0,15*25	3,75	1,35	5,06
Omítka	0,015*20	0,30	1,35	0,41
Celkem stálé		6,29	1,35	8,49

Zatížení nahodilé

Zatížení plošné	kN / m ²	normové	γ_u	výpočtové
Nahodilé - užitné	5,00	5,00	1,50	7,50

Výztuž je navržena ze zkušenosti – Φ R10 a 100 mm

H.4 Konstrukce základové desky

Základová deska je řešena v tloušťce 400 mm s prohloubením v místě výtahové šachty. Základová deska bude ležet na roznášecím polštáři ze štěrkodrti. Nad deskou je navržen zásyp pro vedení inženýrských sítí a vlastní konstrukce podlahy.

Zatížení na základovou desku

Zatížení stálé

Zatížení plošné	kN / m ²	normové	γ_u	výpočtové
Nášlapná vrstva	0,02*22	0,44	1,35	0,59
Cementový pořer	0,08*24	1,92	1,35	2,59
Tepelná izolace	0,08*0,5	0,04	1,35	0,05
Podkladní beton	0,12*25	3,00	1,35	4,05
Hutněný zásyp	0,35*20	7,00	1,35	9,45
Celkem stálé		12,40	1,35	16,73

Zatížení nahodilé

Zatížení plošné	kN / m ²	normové	γ_u	výpočtové
Nahodilé - užité ordinace	2,00	2,00	1,50	3,00
Nahodilé - užité chodba	5,00	5,00	1,50	7,50

Přehled strojního výstupu

str	Popis.

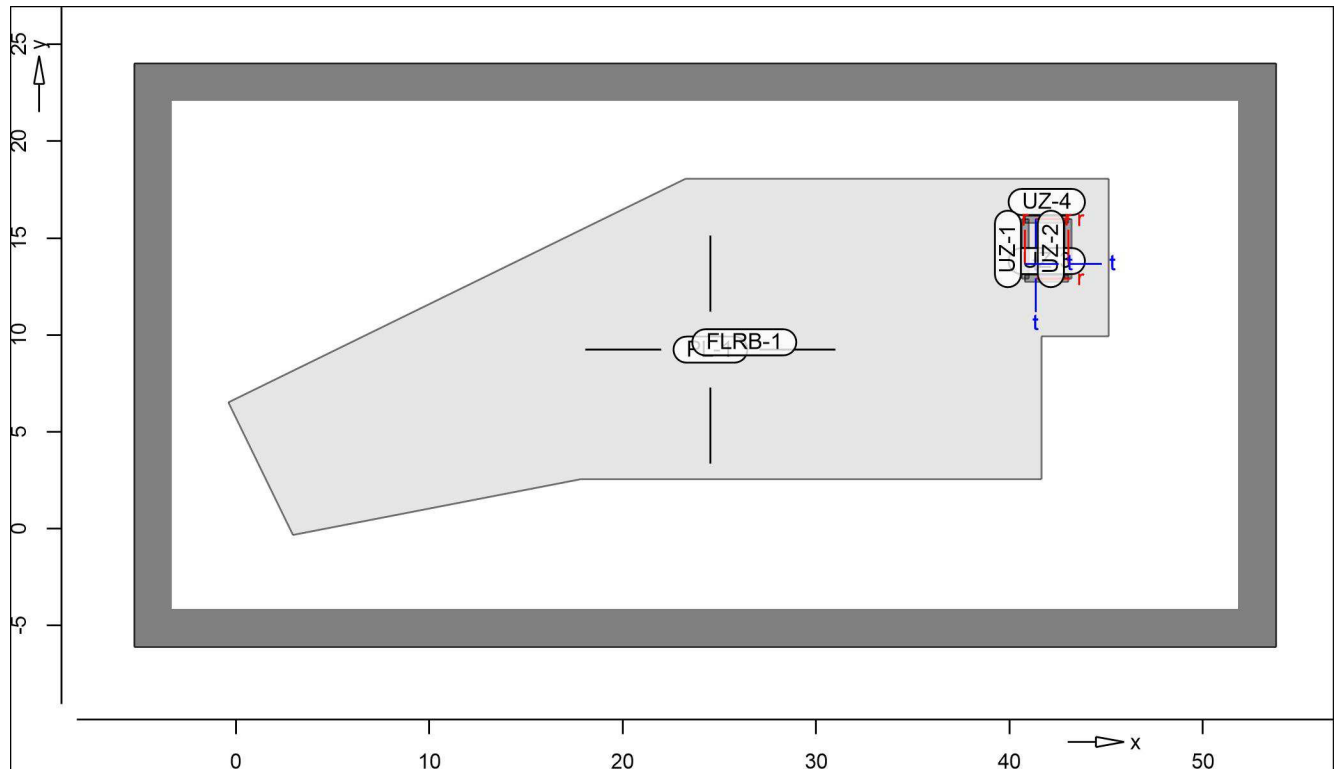
171	Schéma konstrukce, materiál a souřadnice desky
171	Materiál, rozměry a souřadnice průvlaků u výtahové šachtice
172	Podloží - vlastnosti
172	Materiály – beton, betonářská ocel, zdivo
172	Konstrukční prvky – rozměry, plocha, objem
173	Vlastní hmotnost – schéma
173	Vlastní hmotnost – hodnoty
174	Ostatní zatížení – schéma
174 - 178	Ostatní zatížení – hodnoty
179	Zatížení z 2.NP – schéma
179 - 189	Zatížení z 2.NP – hodnoty
189	Výpis typů zatížení
190	Svislé pružné deformace
191	Svislé deformace po smrštění a dotvarování
192	Parametry vyztužení
192	Kombinace zatížení
193	Návrhová výztuž ve směru x při dolním povrchu
194	Návrhová výztuž ve směru y při dolním povrchu
195	Návrhová výztuž ve směru x při horním povrchu
196	Návrhová výztuž ve směru y při horním povrchu
197 - 201	Napětí v základové spáře

Pos.System

Positionsplan

System

Übersicht der Bauteil-Positionen



Plattenbereiche

Position	Material	Ges.	Art	h [cm]
PL-1	<i>C 25/30</i>	Q	iso	40.00
iso : isotropes Material Q : Quarzit # : Querdehnnzahl wurde für diese Position zu 0 gesetzt.				

Koordinaten

Position	Koordinaten in [m]				
PL-1	x	-0.40	23.24	45.13	45.13
	y	6.53	18.06	18.06	9.94
	x	41.66	41.66	17.83	2.95
	y	9.94	2.55	2.55	-0.34

Unterzüge

Position	Art	Material	Ges.	$l_{(r)}$ [m]	$b_{(t)}/h_{(s)}$ [cm]
UZ-1, UZ-2	UZ	<i>C 25/30</i>	Q	3.05	35.0/55.0
UZ-3, UZ-4	UZ	<i>C 25/30</i>	Q	2.22	35.0/55.0
UZ : Unterzug Q : Quarzit					

Koordinaten

Position	Koordinaten in [m]	
UZ-1	x	40.81
	y	12.92
UZ-2	x	43.03
	y	12.92
UZ-3	x	40.81
	y	12.92
UZ-4	x	40.81
	y	15.97

Auflager

Übersicht der Auflager-Positionen

Flächenlager

Bettungszifferverfahren

	St_r SW_r [kN/m ³] [kN/m ²]	St_s SW_s [kN/m ³] [kN/m ²]	St_t SW_t [kN/m ³] [kN/m ²]
FLRB-1	frei 0.00	frei 0.00	+/- 2.00E+004 0.00

Koordinaten

Position	Koordinaten in [m]				
FLRB-1	x	-5.27	53.80	53.80	-5.27
	y	24.01	24.01	-6.11	-6.11

Mat./Querschnitt

Material- und Querschnittswerte

Stahlbeton

DIN EN 1992-1-1

Position	Material	μ	γ [kN/m ³]	G-Modul E-Modul [N/mm ²]
UZ-1..UZ-4	C 25/30 Quarzit	0.20	25.00	12900 31000
PL-1	C 25/30 Quarzit	0.00	25.00	15500 31000

Betonstahl

DIN EN 1992-1-1

Material	μ	γ [kN/m ³]	G-Modul [N/mm ²]	E-Modul [N/mm ²]
B 500MA	0.30	78.50	77000	200000
B 500SA	0.30	78.50	77000	200000

Auswertung

Auswertung des Modells

Stahlbeton-Flächen

Position	d [cm]	A [m ²]	V [m ³]
PL-1	40.0	563.91	225.56

Stahlbeton-Unterzug

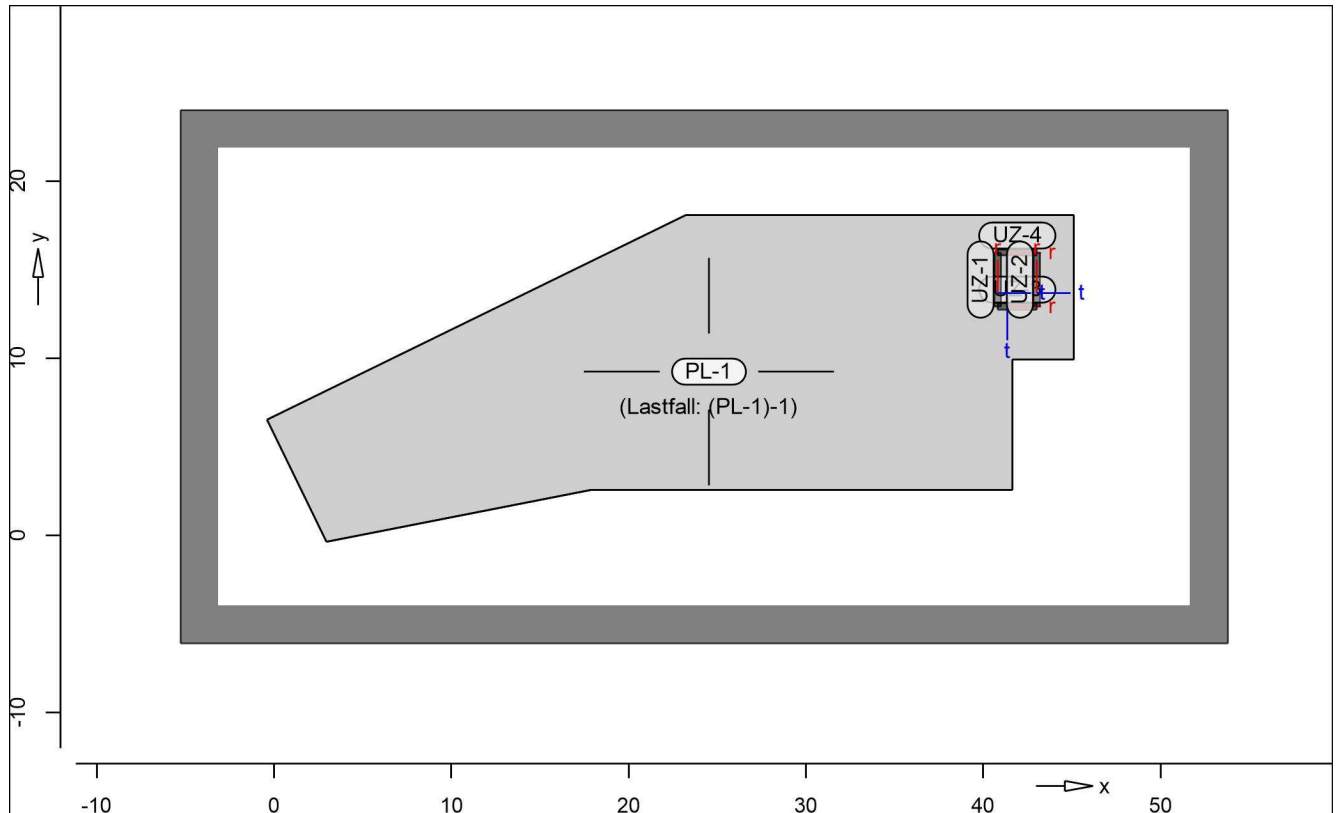
Position	$b_{(t)}/h_{(s)}$ [cm]	A [m ²]	V [m ³]
UZ-1, UZ-2	35.0/55.0	5.49	0.59
UZ-3, UZ-4	35.0/55.0	4.00	0.43

Belastungen

Belastungen im Modell

Positionslasten

Positionsbezogene Flächen- und Linienlasten



Flächenpositionen

Position	Lastfall	p [kN/m ²]
PL-1	LF-1	Eg -10.00
	LF-1	-12.40
	(PL-1)-1	-5.00

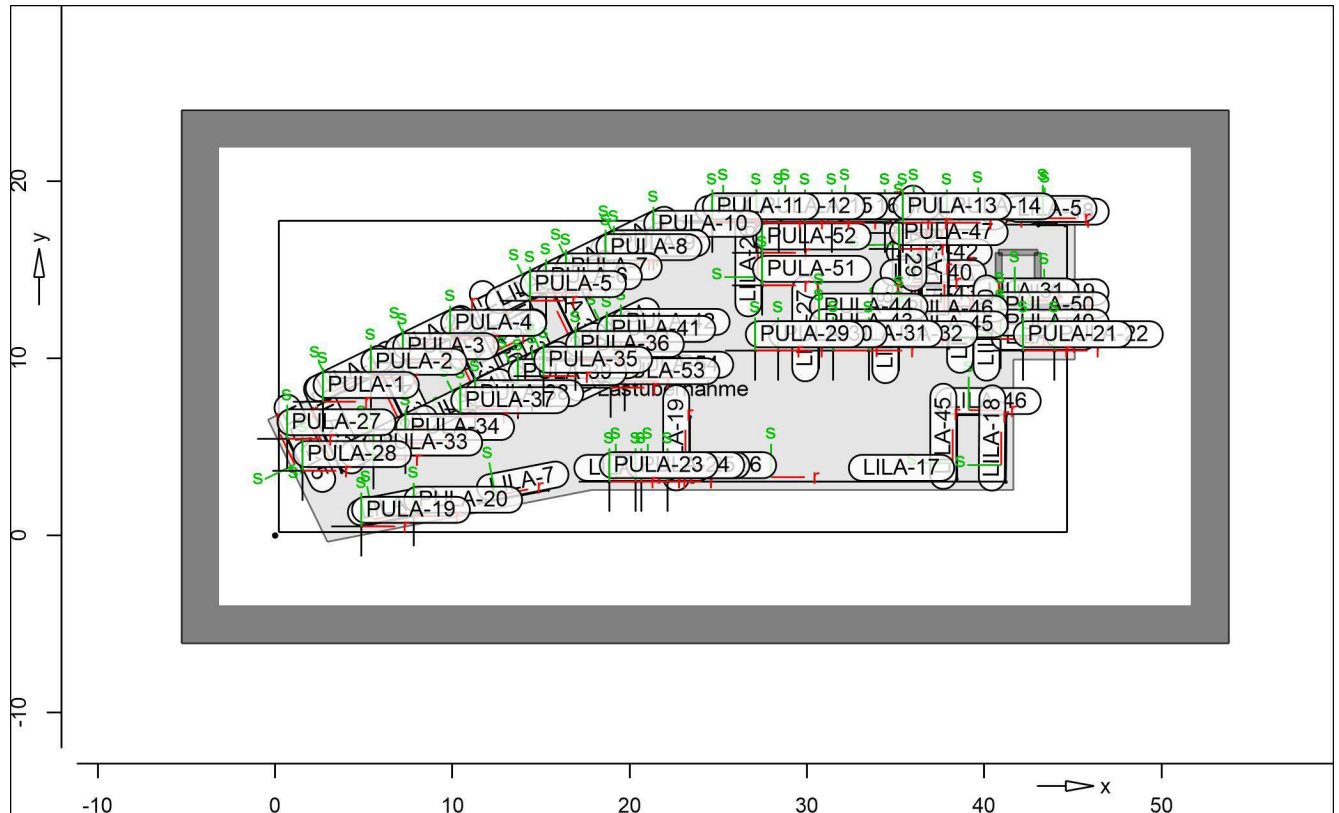
Eg : Eigengewicht

Streckenpositionen

Position	Lastfall	p [kN/m]
UZ-1..UZ-4	LF-1	Eg -4.81

Eg : Eigengewicht

Lastplan



Punktlasten beliebig

Position	Lastfall	Art	F/M [kN]/[kNm]
PULA-1..PULA-4	<i>Nadprazi</i> $\alpha = 0.0^\circ$		
	LF-1	Pz'	-6.15
PULA-5, PULA-6	<i>Nadprazi</i> $\alpha = 0.0^\circ$		
	LF-1	Pz'	-2.05
PULA-7..PULA-14	<i>Nadprazi</i> $\alpha = 0.0^\circ$		
	LF-1	Pz'	-5.13
PULA-15, PULA-16	<i>Nadprazi</i> $\alpha = 0.0^\circ$		
	LF-1	Pz'	-3.08
PULA-17..PULA-20	<i>Nadprazi</i> $\alpha = 0.0^\circ$		
	LF-1	Pz'	-6.15
PULA-21, PULA-22	<i>Nadprazi</i> $\alpha = 0.0^\circ$		
	LF-1	Pz'	-2.94
PULA-23..PULA-26	<i>Nadprazi</i> $\alpha = 0.0^\circ$		
	LF-1	Pz'	-1.89

beliebig

Position	Lastfall	Art	F/M [kN]/[kNm]
PULA-27, PULA-28	<i>Nadprazi</i> $\alpha = 0.0^\circ$		
	LF-1	Pz'	-4.10
PULA-29, PULA-30	<i>Nadprazi</i> $\alpha = 0.0^\circ$		
	LF-1	Pz'	-2.32
PULA-31, PULA-32	<i>Nadprazi</i> $\alpha = 0.0^\circ$		
	LF-1	Pz'	-3.57
PULA-33..PULA-36	<i>Nadprazi</i> $\alpha = 0.0^\circ$		
	LF-1	Pz'	-3.06
PULA-37..PULA-50	<i>Nadprazi</i> $\alpha = 0.0^\circ$		
	LF-1	Pz'	-1.38
PULA-51, PULA-52	<i>Nadprazi</i> $\alpha = 0.0^\circ$		
	LF-1	Pz'	-2.76
PULA-53, PULA-54	<i>Nadprazi</i> $\alpha = 0.0^\circ$		
	LF-1	Pz'	-1.38

Koordinaten

Position	X [m]	Y [m]
PULA-1	2.70	7.56
PULA-2	5.39	8.87
PULA-3	7.19	9.75
PULA-4	9.89	11.07
PULA-5	14.38	13.26
PULA-6	15.28	13.70
PULA-7	16.40	14.24
PULA-8	18.65	15.34
PULA-9	19.10	15.56
PULA-10	21.35	16.66
PULA-11	24.66	17.64
PULA-12	27.16	17.64
PULA-13	35.41	17.64
PULA-14	37.91	17.64
PULA-15	28.41	17.64
PULA-16	29.91	17.64
PULA-17	31.41	17.64
PULA-18	34.41	17.64
PULA-19	4.87	0.52
PULA-20	7.82	1.09
PULA-21	42.20	10.42
PULA-22	43.96	10.42
PULA-23	18.85	3.03
PULA-24	20.35	3.03
PULA-25	20.65	3.03
PULA-26	22.15	3.03
PULA-27	0.67	5.46
PULA-28	1.56	3.66
PULA-29	27.09	10.42

Position	X [m]	Y [m]
PULA-30	28.39	10.42
PULA-31	31.49	10.45
PULA-32	33.49	10.42
PULA-33	5.56	4.31
PULA-34	7.36	5.19
PULA-35	15.15	8.99
PULA-36	16.94	9.87
PULA-37	10.46	6.70
PULA-38	11.27	7.10
PULA-39	13.70	8.28
PULA-40	14.51	8.67
PULA-41	18.71	10.73
PULA-42	19.52	11.12
PULA-43	30.69	11.10
PULA-44	30.69	11.98
PULA-45	35.21	10.98
PULA-46	35.21	11.86
PULA-47	35.21	16.18
PULA-48	35.21	17.06
PULA-49	40.92	11.08
PULA-50	40.91	12.06
PULA-51	27.48	14.11
PULA-52	27.48	15.94
PULA-53	18.95	8.34
PULA-54	19.72	8.70

Linienlasten Toka1

Position	Lastfall	Art	F_A/M_A [kN/m]	F_E/M_E [kNm/m]
LILA-1..LILA-7	LF-1	pt	-7.64	-7.64
LILA-8..LILA-11	LF-1	pt	-4.67	-4.67
LILA-12, LILA-13	LF-1	pt	-4.39	-4.39
LILA-14	LF-1	pt	-4.67	-4.67
LILA-15..LILA-19	LF-1	pt	-1.84	-1.84
LILA-20..LILA-30	LF-1	pt	-1.58	-1.58
LILA-31	LF-1	pt	-3.25	-3.25
LILA-32..LILA-46	<i>Pricky</i> LF-1	pt	-6.44	-6.44
LILA-47, LILA-48	<i>Schodiste</i> LF-1	pt	-24.38	-24.38
	LF-2	pt	-16.25	-16.25
LILA-49	<i>Schodiste</i> LF-1	pt	-28.50	-28.50
	LF-2	pt	-16.25	-16.25

Koordinaten

Position	Koordinaten in [m]	
LILA-1	x	2.70
	y	7.56
LILA-2	x	7.19
	y	9.75
LILA-3	x	24.66
	y	17.64
LILA-4	x	35.41
	y	17.64

Position	Koordinaten in [m]		
LILA-5	x	43.06	44.06
	y	17.64	17.64
LILA-6	x	4.87	7.82
	y	0.52	1.09
LILA-7	x	11.50	15.42
	y	1.80	2.57
LILA-8	x	16.40	18.65
	y	14.24	15.34
LILA-9	x	19.10	21.35
	y	15.56	16.66
LILA-10	x	28.41	29.91
	y	17.64	17.64
LILA-11	x	31.41	34.41
	y	17.64	17.64
LILA-12	x	18.85	20.35
	y	3.03	3.03
LILA-13	x	20.65	22.15
	y	3.03	3.03
LILA-14	x	14.38	15.28
	y	13.26	13.70
LILA-15	x	1.56	0.68
	y	3.66	5.46
LILA-16	x	42.20	43.96
	y	10.42	10.42
LILA-17	x	23.59	41.21
	y	3.03	3.03
LILA-18	x	41.21	41.24
	y	3.03	6.73
LILA-19	x	23.41	23.41
	y	3.18	6.68
LILA-20	x	5.56	7.35
	y	4.31	5.19
LILA-21	x	10.46	11.27
	y	6.70	7.10
LILA-22	x	13.69	14.51
	y	8.29	8.67
LILA-23	x	15.15	16.94
	y	8.99	9.86
LILA-24	x	18.72	19.52
	y	10.74	11.12
LILA-25	x	18.95	19.71
	y	8.34	8.70
LILA-26	x	27.48	27.48
	y	14.11	15.94
LILA-27	x	30.69	30.69
	y	11.12	11.94
LILA-28	x	35.21	35.21
	y	10.98	11.86
LILA-29	x	35.21	35.21
	y	16.18	17.06
LILA-30	x	40.92	40.92
	y	11.08	12.02
LILA-31	x	41.36	42.86
	y	12.99	12.99
LILA-32	x	3.76	2.06
	y	3.57	7.08
LILA-33	x	7.75	6.05
	y	5.52	9.03
LILA-34	x	11.87	10.17
	y	7.53	11.04
LILA-35	x	11.15	13.78

Position **Koordinaten in [m]**

	y	9.50	10.78
LILA-36	x	12.50	11.73
	y	10.23	11.80
LILA-37	x	14.75	13.04
	y	8.93	12.44
LILA-38	x	17.38	15.67
	y	10.21	13.72
LILA-39	x	38.01	38.01
	y	10.57	17.49
LILA-40	x	35.33	38.01
	y	14.05	14.03
LILA-41	x	36.34	36.35
	y	12.91	15.22
LILA-42	x	36.35	38.01
	y	15.22	15.21
LILA-43	x	36.34	38.01
	y	12.91	12.90
LILA-44	x	39.43	39.44
	y	10.57	12.93
LILA-45	x	38.48	38.48
	y	3.18	6.81
LILA-46	x	38.48	41.09
	y	6.81	6.80
LILA-47	x	39.29	40.79
	y	17.49	17.49
LILA-48	x	43.06	44.56
	y	17.49	17.49
LILA-49	x	43.06	44.56
	y	12.89	12.92

Lastbilder

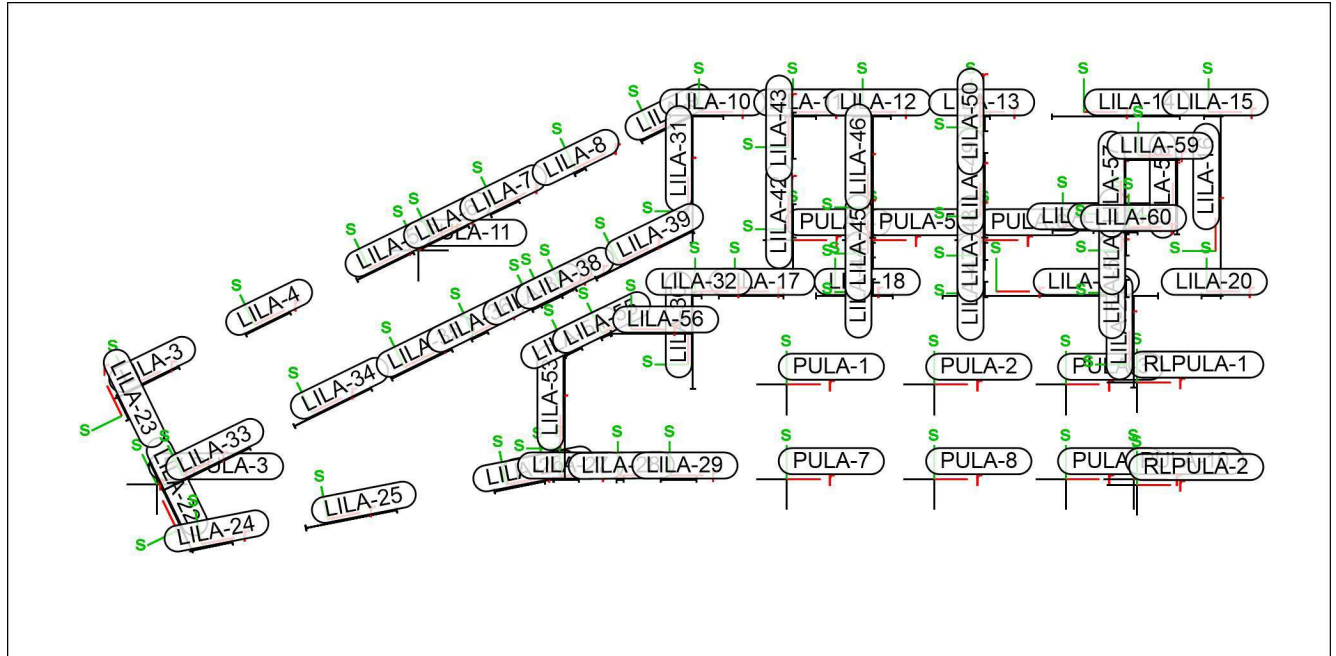
Position	Lastfall	winke	Datei
		[°]	
STLA-1		0.00	1NP.ueb

Koordinaten

Position	X	Y
	[m]	[m]
STLA-1	0.00	0.00

Beschr.Standard1. Beschreibung der Standardlasten

1NP.ueb



Punktlasten
beliebig

Position	Lastfall	Art	F/M [kN]/[kNm]
PULA-1	<i>aus C-1-1</i> $\alpha = 0.0^\circ$		
	LF-1	PZ'	-6.16
	LF-1	PZ'	-334.30
	LF-2	PZ'	1.09
	#(PL-1)-1	PZ'	-15.73
	#(PL-1)-1	PZ'	-37.67
PULA-2	<i>aus C-1-2</i> $\alpha = 0.0^\circ$		
	LF-1	PZ'	-6.16
	LF-1	PZ'	-416.75
	LF-2	PZ'	0.81
	#(PL-1)-1	PZ'	-20.18
	#(PL-1)-1	PZ'	-43.30
PULA-3	<i>aus C-1-3</i> $\alpha = 0.0^\circ$		
	LF-1	PZ'	-6.16
	LF-1	PZ'	-309.13
	LF-2	PZ'	1.24
	#(PL-1)-1	PZ'	-14.87
	#(PL-1)-1	PZ'	-31.13
PULA-4	<i>aus C-1-4</i> $\alpha = 0.0^\circ$		
	LF-1	PZ'	-4.93
	LF-1	PZ'	-128.75
	LF-2	PZ'	-7.95
	#(PL-1)-1	PZ'	-6.97
	#(PL-1)-1	PZ'	-10.29
PULA-5	<i>aus C-1-5</i> $\alpha = 0.0^\circ$		

beliebig

Position	Lastfall	Art	F/M [kN]/[kNm]
	LF-1	Pz'	-4.93
	LF-1	Pz'	-110.92
	LF-2	Pz'	-6.08
	#(PL-1)-1	Pz'	-6.51
	#(PL-1)-1	Pz'	-7.38
PULA-6	<i>aus C-1-6</i> $\alpha = 0.0^\circ$		
	LF-1	Pz'	-4.93
	LF-1	Pz'	-119.92
	LF-2	Pz'	-6.31
	#(PL-1)-1	Pz'	-6.99
	#(PL-1)-1	Pz'	-8.22
PULA-7	<i>aus C-1-9</i> $\alpha = 0.0^\circ$		
	LF-1	Pz'	-6.16
	LF-1	Pz'	-425.66
	LF-2	Pz'	-0.08
	#(PL-1)-1	Pz'	-14.61
	#(PL-1)-1	Pz'	-33.31
PULA-8	<i>aus C-1-10</i> $\alpha = 0.0^\circ$		
	LF-1	Pz'	-6.16
	LF-1	Pz'	-472.33
	LF-2	Pz'	0.04
	#(PL-1)-1	Pz'	-16.84
	#(PL-1)-1	Pz'	-37.61
PULA-9	<i>aus C-1-11</i> $\alpha = 0.0^\circ$		
	LF-1	Pz'	-6.16
	LF-1	Pz'	-337.72
	LF-2	Pz'	-0.04
	#(PL-1)-1	Pz'	-11.67
	#(PL-1)-1	Pz'	-26.47
PULA-10	<i>aus C-1-12</i> $\alpha = 0.0^\circ$		
	LF-1	Pz'	-6.16
	LF-1	Pz'	-180.14
	LF-2	Pz'	0.15
	#(PL-1)-1	Pz'	-3.81
	#(PL-1)-1	Pz'	-6.55
PULA-11	<i>aus C-1-13</i> $\alpha = 26.0^\circ$		
	LF-1	Pz'	-10.40
	LF-1	Pz'	-56.28
	LF-2	Pz'	-6.43
	#(PL-1)-1	Pz'	-1.47
	#(PL-1)-1	Pz'	-4.63
RLPULA-1	<i>Restlast</i> $\alpha = 0.0^\circ$		
	LF-1	Pz'	6.53
	LF-1	My'	-1.64
	LF-2	Pz'	-12.97
	LF-2	My'	3.23
RLPULA-2	<i>Restlast</i> $\alpha = 0.0^\circ$		
	LF-1	Pz'	5.96
	LF-1	My'	-1.50
	LF-2	Pz'	-12.37
	LF-2	My'	3.09
RLPULA-3	<i>Restlast</i>		

beliebig

Position	Lastfall	Art	F/M [kN]/[kNm]
	$\alpha = 26.0^\circ$		
	LF-2	Pz'	-3.13
	LF-2	Mx'	-0.77
	LF-4	Pz'	1.25
	LF-4	Mx'	0.31

Koordinaten

Position	X [m]	Y [m]
PULA-1	27.18	6.83
PULA-2	33.13	6.83
PULA-3	38.45	6.83
PULA-4	27.45	12.64
PULA-5	30.65	12.64
PULA-6	35.17	12.64
PULA-7	27.18	3.03
PULA-8	33.13	3.03
PULA-9	38.45	3.03
PULA-10	41.18	3.03
PULA-11	12.32	12.22
RLPULA-1	41.32	6.91
RLPULA-2	41.32	2.79
RLPULA-3	1.79	2.82

Linienlasten
lokal

Position	Lastfall	Art	F _A /M _A [kN/m]/[kNm/m]	F _E /M _E [kN/m]/[kNm/m]
LILA-1	<i>aus C-1-7</i>			
	LF-1	pt	-25.06	-25.06
	LF-1	pt	-431.20	-313.55
	LF-2	pt	-10.59	-8.51
	#(PL-1)-1	pt	-24.68	-19.44
	#(PL-1)-1	pt	-33.98	-24.97
LILA-2	<i>aus C-1-8</i>			
	LF-1	pt	-25.06	-25.06
	LF-1	pt	-308.49	-269.93
	LF-2	pt	-0.36	0.13
	#(PL-1)-1	pt	-21.43	-20.08
	#(PL-1)-1	pt	-7.04	-4.12
LILA-3	<i>aus W-1</i>			
	LF-1	pt	-28.80	-28.80
	LF-1	pt	-32.00	-145.93
	LF-2	pt	-0.10	0.25
	#(PL-1)-1	pt	0.21	-4.87
	#(PL-1)-1	pt	0.65	-10.95
LILA-4	<i>aus W-2</i>			
	LF-1	pt	-28.80	-28.80
	LF-1	pt	-139.50	-117.56
	LF-2	pt	0.16	0.82
	#(PL-1)-1	pt	-4.66	-3.78
	#(PL-1)-1	pt	-9.90	-7.82
LILA-5	<i>aus W-3</i>			
	LF-1	pt	-28.80	-28.80
	LF-1	pt	-130.54	-6.84
	LF-2	pt	1.31	-2.51
	#(PL-1)-1	pt	-3.98	-0.24
	#(PL-1)-1	pt	-8.87	0.06
LILA-6	<i>aus W-4</i>			
	LF-1	pt	-28.80	-28.80
	LF-1	pt	-20.15	-75.44
	LF-2	pt	-2.21	-0.07
	#(PL-1)-1	pt	-0.60	-2.24

lokal

Position	Lastfall	Art	F_A/M_A [kN/m]	F_E/M_E [kNm/m]
	#(PL-1)-1	pt	-1.19	-5.20
LILA-7	<i>aus W-5</i>			
	LF-1	pt	-28.80	-28.80
	LF-1	pt	-81.81	-171.75
	LF-2	pt	-3.61	-11.70
	#(PL-1)-1	pt	-2.32	-5.88
	#(PL-1)-1	pt	-6.68	-12.45
LILA-8	<i>aus W-6</i>			
	LF-1	pt	-28.80	-28.80
	LF-1	pt	-291.31	-279.12
	LF-2	pt	-4.12	-2.42
	#(PL-1)-1	pt	-9.90	-9.07
	#(PL-1)-1	pt	-20.69	-20.32
LILA-9	<i>aus W-7</i>			
	LF-1	pt	-28.80	-28.80
	LF-1	pt	-117.38	-0.48
	LF-2	pt	0.54	-0.14
	#(PL-1)-1	pt	-3.09	0.66
	#(PL-1)-1	pt	-7.34	2.35
LILA-10	<i>aus W-8</i>			
	LF-1	pt	-28.80	-28.80
	LF-1	pt	-16.50	-124.13
	LF-2	pt	-0.09	-0.03
	#(PL-1)-1	pt	0.18	-3.42
	#(PL-1)-1	pt	0.97	-6.57
LILA-11	<i>aus W-9</i>			
	LF-1	pt	-28.80	-28.80
	LF-1	pt	-92.43	-50.34
	LF-2	pt	0.03	0.09
	#(PL-1)-1	pt	-3.45	-2.66
	#(PL-1)-1	pt	-4.11	-0.97
LILA-12	<i>aus W-10</i>			
	LF-1	pt	-28.80	-28.80
	LF-1	pt	-43.25	-121.41
	LF-2	pt	0.07	0.04
	#(PL-1)-1	pt	-2.37	-5.41
	#(PL-1)-1	pt	-0.49	-5.56
LILA-13	<i>aus W-11</i>			
	LF-1	pt	-28.80	-28.80
	LF-1	pt	-147.67	-122.52
	LF-2	pt	0.17	0.23
	#(PL-1)-1	pt	-6.58	-5.09
	#(PL-1)-1	pt	-7.39	-5.70
LILA-14	<i>aus W-12</i>			
	LF-1	pt	-28.80	-28.80
	LF-1	pt	-108.52	-13.61
	LF-2	pt	0.05	-0.05
	#(PL-1)-1	pt	-3.06	0.23
	#(PL-1)-1	pt	-5.78	1.22
LILA-15	<i>aus W-13</i>			
	LF-1	pt	-28.80	-28.80
	LF-1	pt	-39.07	-38.75
	LF-2	pt	-0.01	0.03
	#(PL-1)-1	pt	-0.52	-0.61
	#(PL-1)-1	pt	-0.85	-0.64
LILA-16	<i>aus W-14</i>			
	LF-1	pt	-28.80	-28.80
	LF-1	pt	-36.61	-38.67
	LF-2	pt	-3.55	1.45
	#(PL-1)-1	pt	-0.54	-0.84

lokal

Position	Lastfall	Art	F_A/M_A [kN/m] / [kNm/m]	F_E/M_E
	#(PL-1)-1	pt	-1.89	-0.13
LILA-17	<i>aus W-15</i>			
	LF-1	pt	-28.80	-28.80
	LF-1	pt	-79.75	-126.98
	LF-2	pt	-5.18	-4.97
	#(PL-1)-1	pt	-2.78	-4.88
	#(PL-1)-1	pt	-5.63	-9.81
LILA-18	<i>aus W-16</i>			
	LF-1	pt	-28.80	-28.80
	LF-1	pt	-70.52	-148.55
	LF-2	pt	-3.80	-4.23
	#(PL-1)-1	pt	-2.19	-5.90
	#(PL-1)-1	pt	-8.27	-10.34
LILA-19	<i>aus W-17</i>			
	LF-1	pt	-28.80	-28.80
	LF-1	pt	-103.27	-44.53
	LF-2	pt	-3.19	-4.73
	#(PL-1)-1	pt	-4.32	-1.07
	#(PL-1)-1	pt	-9.44	-3.10
LILA-20	<i>aus W-18</i>			
	LF-1	pt	-28.80	-28.80
	LF-1	pt	-89.54	-47.49
	LF-2	pt	-9.75	-8.53
	#(PL-1)-1	pt	-1.02	-0.30
	#(PL-1)-1	pt	-3.99	-1.43
LILA-21	<i>aus W-19</i>			
	LF-1	pt	-24.00	-24.00
	LF-1	pt	-82.83	-36.18
	LF-2	pt	1.25	-3.13
	#(PL-1)-1	pt	-1.98	-1.12
	#(PL-1)-1	pt	-4.61	-1.60
LILA-22	<i>aus W-20</i>			
	LF-1	pt	-28.80	-28.80
	LF-1	pt	-10.23	-72.17
	LF-2	pt	0.21	-1.90
	#(PL-1)-1	pt	0.23	-1.65
	#(PL-1)-1	pt	-0.05	-2.59
LILA-23	<i>aus W-21</i>			
	LF-1	pt	-28.80	-28.80
	LF-1	pt	-72.85	-55.00
	LF-2	pt	-0.53	-0.13
	#(PL-1)-1	pt	-0.95	-0.43
	#(PL-1)-1	pt	-2.09	-0.70
LILA-24	<i>aus W-22</i>			
	LF-1	pt	-28.80	-28.80
	LF-1	pt	-5.36	-165.03
	LF-2	pt	0.27	-0.11
	#(PL-1)-1	pt	0.56	-4.95
	#(PL-1)-1	pt	1.45	-9.96
LILA-25	<i>aus W-23</i>			
	LF-1	pt	-28.80	-28.80
	LF-1	pt	-69.18	-155.36
	LF-2	pt	-0.69	-1.07
	#(PL-1)-1	pt	-1.82	-4.84
	#(PL-1)-1	pt	-4.91	-10.16
LILA-26	<i>aus W-24</i>			
	LF-1	pt	-28.80	-28.80
	LF-1	pt	-168.06	-34.65
	LF-2	pt	-1.10	0.10
	#(PL-1)-1	pt	-3.79	-3.15

lokal

Position	Lastfall	Art	F_A/M_A [kN/m] / [kNm/m]	F_E/M_E [kN/m] / [kNm/m]
LILA-27	#(PL-1)-1	pt	-15.14	0.60
	<i>aus W-25</i>			
	LF-1	pt	-28.80	-28.80
	LF-1	pt	-36.78	-36.90
	LF-2	pt	0.07	0.57
LILA-28	#(PL-1)-1	pt	-3.13	-1.78
	#(PL-1)-1	pt	0.12	-0.82
	<i>aus W-26</i>			
	LF-1	pt	-28.80	-28.80
	LF-1	pt	-95.99	-99.57
LILA-29	LF-2	pt	0.79	0.78
	#(PL-1)-1	pt	-1.68	-1.73
	#(PL-1)-1	pt	-8.67	-9.12
	<i>aus W-27</i>			
	LF-1	pt	-28.80	-28.80
LILA-30	LF-1	pt	-153.04	-305.96
	LF-2	pt	0.32	0.03
	#(PL-1)-1	pt	-4.26	-10.54
	#(PL-1)-1	pt	-10.03	-16.05
	<i>aus W-28</i>			
LILA-31	LF-1	pt	-28.80	-28.80
	LF-1	pt	-198.09	-11.88
	LF-2	pt	3.59	-5.63
	#(PL-1)-1	pt	-6.65	-0.99
	#(PL-1)-1	pt	-17.76	1.94
LILA-32	<i>aus W-29</i>			
	LF-1	pt	-28.80	-28.80
	LF-1	pt	-132.08	-61.92
	LF-2	pt	-3.22	1.73
	#(PL-1)-1	pt	-5.95	-1.21
LILA-33	#(PL-1)-1	pt	-9.78	-3.88
	<i>aus W-30</i>			
	LF-1	pt	-28.80	-28.80
	LF-1	pt	-62.20	-68.08
	LF-2	pt	-7.58	-6.95
LILA-34	#(PL-1)-1	pt	-2.45	-2.59
	#(PL-1)-1	pt	-3.58	-4.27
	<i>aus W-31</i>			
	LF-1	pt	-24.00	-24.00
	LF-1	pt	-27.47	-219.08
LILA-35	LF-2	pt	0.31	-1.48
	#(PL-1)-1	pt	-0.14	-9.16
	#(PL-1)-1	pt	-0.78	-19.96
	<i>aus W-32</i>			
	LF-1	pt	-24.00	-24.00
LILA-36	LF-1	pt	-202.44	-130.64
	LF-2	pt	-5.34	-4.33
	#(PL-1)-1	pt	-8.39	-5.27
	#(PL-1)-1	pt	-18.24	-12.63
	<i>aus W-33</i>			
LILA-37	LF-1	pt	-24.00	-24.00
	LF-1	pt	-170.22	-218.80
	LF-2	pt	-4.24	-5.40
	#(PL-1)-1	pt	-7.32	-9.54
	#(PL-1)-1	pt	-14.76	-18.58
LILA-38	<i>aus W-34</i>			
	LF-1	pt	-24.00	-24.00
	LF-1	pt	-248.96	-241.24
	LF-2	pt	-6.87	-6.92
	#(PL-1)-1	pt	-10.82	-10.32

lokal

Position	Lastfall	Art	F_A/M_A [kN/m]	F_E/M_E [kNm/m]
	#(PL-1)-1	pt	-21.66	-21.51
LILA-37	<i>aus W-35</i>			
	LF-1	pt	-24.00	-24.00
	LF-1	pt	-90.92	-64.84
	LF-2	pt	-2.66	-1.72
	#(PL-1)-1	pt	-4.25	-3.47
	#(PL-1)-1	pt	-8.41	-5.47
LILA-38	<i>aus W-36</i>			
	LF-1	pt	-24.00	-24.00
	LF-1	pt	-43.77	-47.13
	LF-2	pt	-1.37	-2.19
	#(PL-1)-1	pt	-2.50	-2.00
	#(PL-1)-1	pt	-3.92	-5.72
LILA-39	<i>aus W-37</i>			
	LF-1	pt	-24.00	-24.00
	LF-1	pt	-41.37	-78.92
	LF-2	pt	-4.00	-3.38
	#(PL-1)-1	pt	0.12	-3.42
	#(PL-1)-1	pt	-9.17	-5.29
LILA-40	<i>aus W-38</i>			
	LF-1	pt	-24.00	-24.00
	LF-1	pt	-108.35	-85.17
	LF-2	pt	-6.72	-8.79
	#(PL-1)-1	pt	-3.49	-3.83
	#(PL-1)-1	pt	-10.15	-5.46
LILA-41	<i>aus W-39</i>			
	LF-1	pt	-24.00	-24.00
	LF-1	pt	-34.71	-25.89
	LF-2	pt	-4.87	-3.68
	#(PL-1)-1	pt	-1.51	-1.13
	#(PL-1)-1	pt	-1.95	-1.40
LILA-42	<i>aus W-40</i>			
	LF-1	pt	-24.06	-24.06
	LF-1	pt	-80.12	-80.93
	LF-2	pt	-4.32	-0.37
	#(PL-1)-1	pt	-4.26	-1.65
	#(PL-1)-1	pt	-6.69	-12.52
LILA-43	<i>aus W-41</i>			
	LF-1	pt	-24.06	-24.06
	LF-1	pt	-79.88	-57.38
	LF-2	pt	0.49	0.01
	#(PL-1)-1	pt	-0.52	-2.42
	#(PL-1)-1	pt	-13.55	-1.71
LILA-44	<i>aus W-42</i>			
	LF-1	pt	-24.00	-24.00
	LF-1	pt	-99.16	-79.54
	LF-2	pt	-3.31	-5.41
	#(PL-1)-1	pt	-3.84	-3.74
	#(PL-1)-1	pt	-7.44	-4.89
LILA-45	<i>aus W-43</i>			
	LF-1	pt	-24.00	-24.00
	LF-1	pt	-75.00	-74.08
	LF-2	pt	-5.79	-4.47
	#(PL-1)-1	pt	-4.34	-4.41
	#(PL-1)-1	pt	-4.38	-4.69
LILA-46	<i>aus W-44</i>			
	LF-1	pt	-24.00	-24.00
	LF-1	pt	-56.70	-46.58
	LF-2	pt	-1.88	1.00
	#(PL-1)-1	pt	-2.17	-0.63

lokal

Position	Lastfall	Art	F_A/M_A [kN/m] / [kNm/m]	F_E/M_E [kN/m] / [kNm/m]
	#(PL-1)-1	pt	-7.23	-5.52
LILA-47	<i>aus W-45</i>			
	LF-1	pt	-24.00	-24.00
	LF-1	pt	-65.09	-57.02
	LF-2	pt	-2.31	-4.54
	#(PL-1)-1	pt	-2.56	-2.78
	#(PL-1)-1	pt	-5.50	-4.08
LILA-48	<i>aus W-46</i>			
	LF-1	pt	-24.00	-24.00
	LF-1	pt	-68.05	-78.52
	LF-2	pt	-5.90	-4.58
	#(PL-1)-1	pt	-4.04	-4.70
	#(PL-1)-1	pt	-4.35	-5.18
LILA-49	<i>aus W-47</i>			
	LF-1	pt	-24.00	-24.00
	LF-1	pt	-70.52	-79.05
	LF-2	pt	-2.88	1.05
	#(PL-1)-1	pt	-3.75	0.15
	#(PL-1)-1	pt	-5.66	-11.95
LILA-50	<i>aus W-48</i>			
	LF-1	pt	-24.00	-24.00
	LF-1	pt	-102.07	-105.24
	LF-2	pt	0.24	0.19
	#(PL-1)-1	pt	-3.12	-4.26
	#(PL-1)-1	pt	-8.08	-5.46
LILA-51	<i>aus W-49</i>			
	LF-1	pt	-24.00	-24.00
	LF-1	pt	-48.91	-48.61
	LF-2	pt	-3.25	-5.32
	#(PL-1)-1	pt	-1.73	-1.67
	#(PL-1)-1	pt	-2.60	-3.29
LILA-52	<i>aus W-50</i>			
	LF-1	pt	-24.00	-24.00
	LF-1	pt	-41.09	-23.87
	LF-2	pt	-6.17	-3.54
	#(PL-1)-1	pt	-1.41	-0.97
	#(PL-1)-1	pt	-3.43	-1.55
LILA-53	<i>aus W-51</i>			
	LF-1	pt	-16.98	-16.98
	LF-1	pt	-53.07	-68.07
	LF-2	pt	0.81	-2.38
	#(PL-1)-1	pt	-1.34	-0.33
	#(PL-1)-1	pt	-6.65	-11.48
LILA-54	<i>aus W-52</i>			
	LF-1	pt	-16.98	-16.98
	LF-1	pt	-61.17	-66.07
	LF-2	pt	-3.85	-2.95
	#(PL-1)-1	pt	-1.76	-2.89
	#(PL-1)-1	pt	-6.55	-5.29
LILA-55	<i>aus W-53</i>			
	LF-1	pt	-16.98	-16.98
	LF-1	pt	-95.03	-96.56
	LF-2	pt	-4.24	-4.65
	#(PL-1)-1	pt	-5.47	-5.69
	#(PL-1)-1	pt	-5.28	-5.12
LILA-56	<i>aus W-54</i>			
	LF-1	pt	-16.98	-16.98
	LF-1	pt	-98.33	-57.32
	LF-2	pt	-5.40	-1.43
	#(PL-1)-1	pt	-5.71	-1.84

lokal

Position	Lastfall	Art	F_A/M_A [kN/m] / [kNm/m]	F_E/M_E [kN/m] / [kNm/m]
	#(PL-1)-1	pt	-6.16	-3.83
LILA-57	<i>aus W-55</i>			
	LF-1	pt	-20.00	-20.00
	LF-1	pt	-82.37	-43.30
	LF-2	pt	-8.88	2.83
	#(PL-1)-1	pt	-3.87	-3.23
	#(PL-1)-1	pt	-2.93	0.46
LILA-58	<i>aus W-56</i>			
	LF-1	pt	-20.00	-20.00
	LF-1	pt	-91.90	-19.60
	LF-2	pt	-7.91	2.72
	#(PL-1)-1	pt	-3.30	-1.15
	#(PL-1)-1	pt	-5.70	1.44
LILA-59	<i>aus W-57</i>			
	LF-1	pt	-20.00	-20.00
	LF-1	pt	-51.82	-32.65
	LF-2	pt	-0.02	-0.01
	#(PL-1)-1	pt	-3.32	-1.21
	#(PL-1)-1	pt	-0.40	-0.41
LILA-60	<i>aus W-58</i>			
	LF-1	pt	-20.00	-20.00
	LF-1	pt	-105.55	-84.12
	LF-2	pt	-14.32	-10.91
	#(PL-1)-1	pt	-4.59	-3.49
	#(PL-1)-1	pt	-5.40	-4.28

Koordinaten

Position	Koordinaten in [m]		
LILA-1	x	17.29	18.10
	y	10.01	10.41
LILA-2	x	17.42	17.77
	y	2.96	3.02
LILA-3	x	0.20	2.67
	y	6.33	7.53
LILA-4	x	5.36	7.16
	y	8.84	9.72
LILA-5	x	9.86	12.13
	y	11.04	12.15
LILA-6	x	12.49	14.35
	y	12.32	13.23
LILA-7	x	15.25	16.37
	y	13.67	14.21
LILA-8	x	18.62	19.07
	y	15.31	15.53
LILA-9	x	21.32	23.34
	y	16.63	17.61
LILA-10	x	23.34	24.63
	y	17.61	17.61
LILA-11	x	27.13	28.38
	y	17.61	17.61
LILA-12	x	29.88	31.38
	y	17.61	17.61
LILA-13	x	34.38	35.38
	y	17.61	17.61
LILA-14	x	37.88	43.03
	y	17.61	17.61
LILA-15	x	44.03	44.68
	y	17.61	17.61
LILA-16	x	44.68	44.68
	y	10.39	17.61
LILA-17	x	24.46	27.06

Position	Koordinaten in [m]		
	y	10.39	10.39
LILA-18	x	28.36	31.46
	y	10.39	10.39
LILA-19	x	33.46	42.17
	y	10.39	10.39
LILA-20	x	43.93	44.68
	y	10.39	10.39
LILA-21	x	41.18	41.18
	y	6.71	10.39
LILA-22	x	3.21	1.52
	y	0.17	3.63
LILA-23	x	0.64	0.20
	y	5.43	6.33
LILA-24	x	3.21	4.84
	y	0.17	0.49
LILA-25	x	7.79	11.47
	y	1.06	1.77
LILA-26	x	15.39	17.43
	y	2.54	2.93
LILA-27	x	17.77	18.82
	y	3.00	3.00
LILA-28	x	20.32	20.62
	y	3.00	3.00
LILA-29	x	22.12	23.56
	y	3.00	3.00
LILA-30	x	23.41	23.41
	y	6.65	10.54
LILA-31	x	23.41	23.41
	y	12.54	17.61
LILA-32	x	23.41	23.76
	y	10.39	10.39
LILA-33	x	2.03	5.53
	y	2.58	4.28
LILA-34	x	7.33	10.43
	y	5.16	6.67
LILA-35	x	11.24	13.67
	y	7.07	8.25
LILA-36	x	14.48	15.12
	y	8.64	8.96
LILA-37	x	16.91	17.29
	y	9.83	10.01
LILA-38	x	18.10	18.68
	y	10.41	10.70
LILA-39	x	19.49	23.41
	y	11.09	13.00
LILA-40	x	37.91	39.56
	y	13.03	13.03
LILA-41	x	40.44	40.76
	y	13.03	13.03
LILA-42	x	27.45	27.45
	y	12.74	14.08
LILA-43	x	27.45	27.45
	y	15.91	17.76
LILA-44	x	30.65	30.65
	y	10.39	11.07
LILA-45	x	30.65	30.65
	y	11.95	12.54
LILA-46	x	30.65	30.65
	y	12.74	17.61
LILA-47	x	35.17	35.17
	y	10.35	10.95

Position	Koordinaten in [m]		
LILA-48	x	35.17	35.17
	y	11.83	12.54
LILA-49	x	35.17	35.18
	y	12.74	16.15
LILA-50	x	35.17	35.17
	y	17.03	17.61
LILA-51	x	40.88	40.88
	y	10.35	11.05
LILA-52	x	40.88	40.88
	y	12.03	12.86
LILA-53	x	18.23	18.23
	y	3.00	7.97
LILA-54	x	18.23	18.92
	y	7.97	8.31
LILA-55	x	19.71	20.09
	y	8.69	8.88
LILA-56	x	20.09	23.41
	y	8.88	8.88
LILA-57	x	40.86	40.86
	y	12.96	15.86
LILA-58	x	42.93	42.93
	y	12.86	15.86
LILA-59	x	40.86	42.93
	y	15.86	15.86
LILA-60	x	40.86	41.33
	y	12.96	12.96

Einwirkungen

Einwirkungen nach DIN EN 1990

Gk	Ständige Einwirkungen
Pk	Belastungen infolge Vorspannung
Qk.N	Kategorie A - wohn- und Aufenthaltsräume
Qk.S	Schnee- und Eislasten für Orte bis NN + 1000 m
Qk.W	Windlasten
Qk.T	Temperatureinwirkungen
AEd	Erdbebeneinwirkung

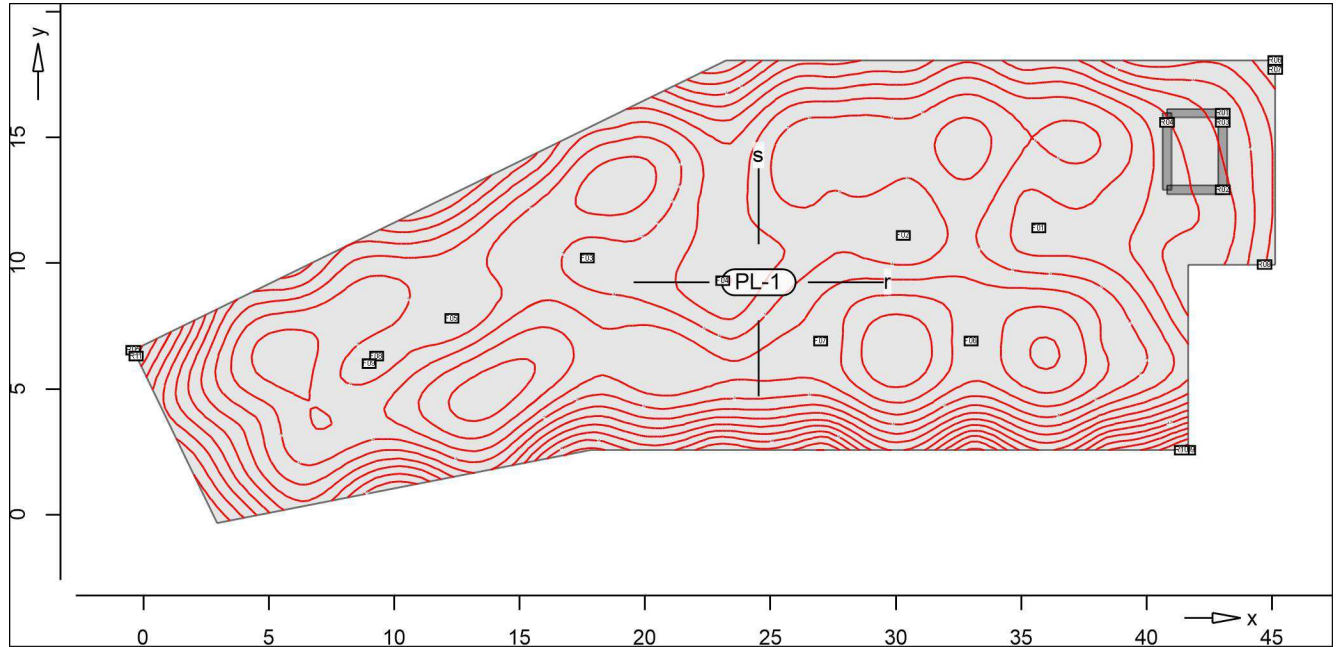
Lastfälle

Lastfälle und deren Zuordnung zu den Einwirkungen

Gk	LF-1
Qk.N	LF-2 (PL-1)-1
	LG-1 (LF-3)
Qk.S	#(PL-1)-1
Qk.W	LF-4
Pk	VOR-1
Qk.T	TEMP-1

Pos. PL-1 - Plattenverformung

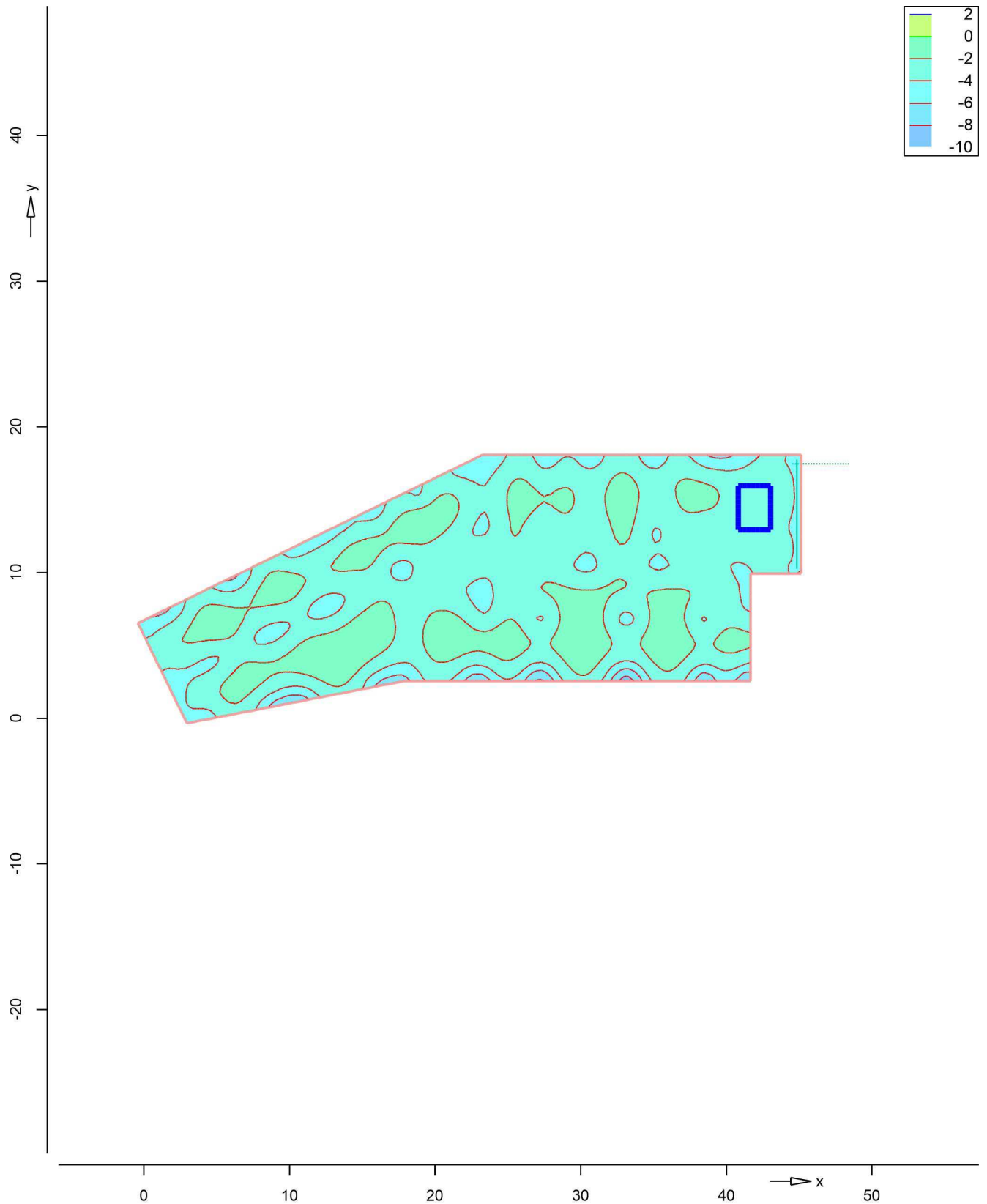
aus Lastkombination LK-1



Isolinienstufen = 0.20 mm

Markierung der lokalen Extrema erst ab
 Verformungen > 0.20 mm

Punkt	x [m]	y [m]	max [mm]
F01	35.70	11.40	-3.28
F02	30.30	11.10	-3.18
F03	17.70	10.20	-3.16
F04	23.10	9.30	-3.40
F05	12.30	7.80	-3.18
F06	33.00	6.90	-2.79
F07	27.00	6.90	-2.79
F08	9.30	6.30	-3.10
F09	9.00	6.00	-3.10
R01	43.03	15.97	-3.88
R02	43.03	12.92	-3.75
R03	43.03	15.60	-3.86
R04	40.81	15.60	-3.58
R05	-0.40	6.53	-4.93
R06	45.13	18.06	-4.57
R07	45.13	17.70	-4.51
R08	44.70	9.94	-4.18
R09	41.66	2.55	-5.40
R10	41.40	2.55	-5.32
R11	-0.29	6.30	-4.81



Verformungsnachweis Zustand II	Endverformung $f_{,00}$ im Zustand II	Maßstab: 1:380
Minimum aus Überlagerung über LKN in [mm] Max = 0 (Kn. 10), Min = -8.8 (Kn. 6471), Step = 2		

Pos. PL-1 - Plattenbemessung (Isolinien)

Bemessung

Plattenbemessung nach DIN EN 1992-1-1

Beton C 25/30, Betonstahl B 500MA

Gesteinskörnung Quarzit

Bew.-Abstände $d', ru/su = 3.0 / 3.0$ cm

$d', ro/so = 3.0 / 3.0$ cm

Grundbewehrung $asg, ru/su = 5.03 / 5.03$ cm²/m

$asg, ro/so = 5.03 / 5.03$ cm²/m

Bemessungswinkel $w, ru/su = 0.0 / 90.0$ °

$w, ro/so = 0.0 / 90.0$ °

Mindestbewehrung (9.2.1.1) wurde nicht ermittelt.

Dicke konstant $h = 40.00$ cm

Kombinationen

Maßgebende Kombinationen nach DIN EN 1990

Zur Bemessung wurden folgende Kombinationen untersucht:

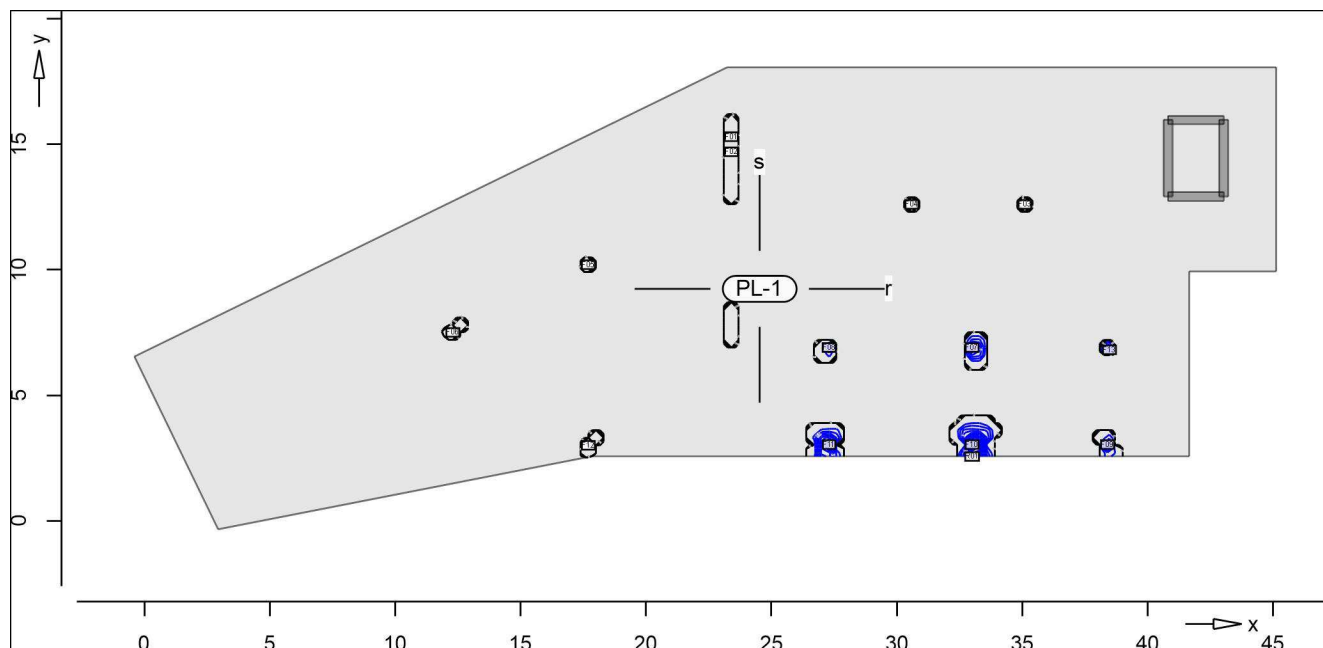
- Grundkombination

Ew Einwirkungsname
 Lkn Lastkombinationsnummer
 ! vorherrschende veränderliche Einwirkung

Die Beteiligung einzelner Lastfälle innerhalb einer Einwirkung wird mit diesem Ausgabeformat nicht dokumentiert.

Ew	Gk	Qk.N	Qk.S	Qk.W
Lkn	Grundkombination			
1	1.35	1.50!	0.75	.
2	1.35	.	1.50!	0.90
3	1.35	.	1.50!	.
4-6	1.35	1.05	1.50!	0.90
7-8	1.35	1.05	1.50!	.

Erforderliche untere Bewehrung $a_{s,ru}$ [cm^2/m] (Differenzbew.)

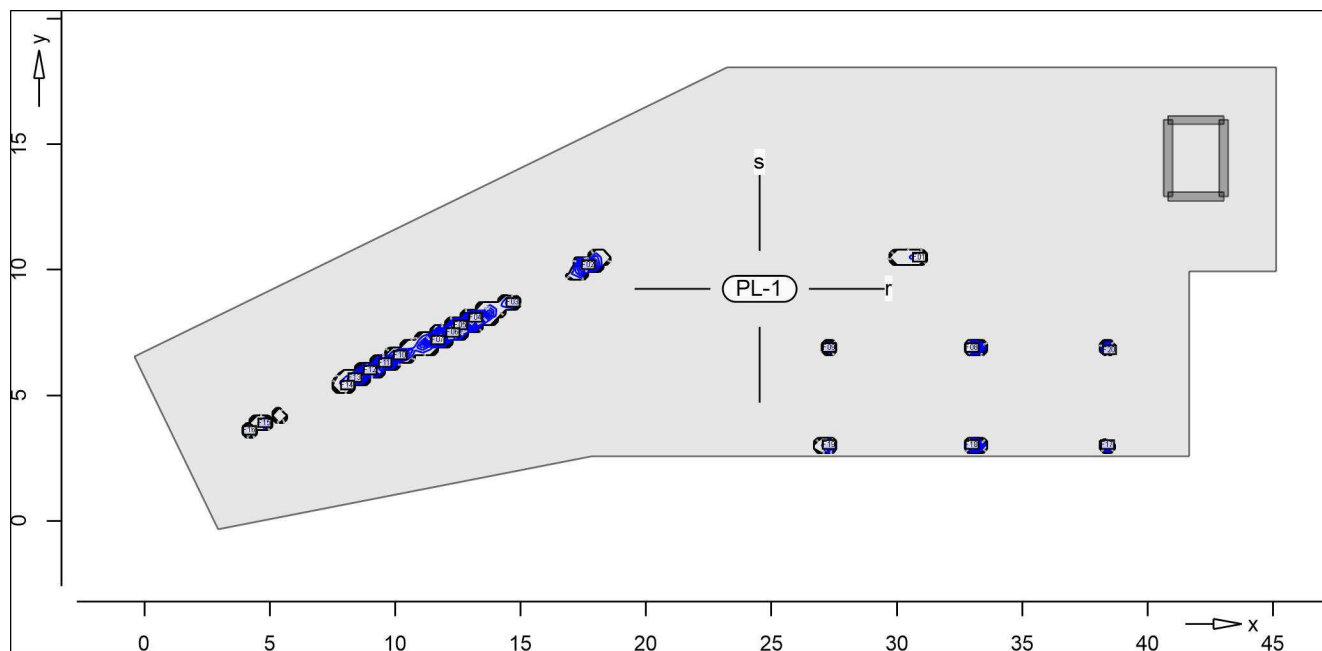


Isolinienstufen = $0.75 \text{ cm}^2/\text{m}$

Bew.-Abstand: $d',ru = 3.0 \text{ cm}$
 Grundbewehrung: $a_{sg,ru} = 5.03 \text{ cm}^2/\text{m}$

Punkt	x	y [m]	m_{rEd}	m_{sEd}	m_{rsEd}	m_{Ed} [kNm/m]	$a_{s,ru}$ [cm^2/m]	Lkn
F01	23.40	15.30	83.77	-36.74	9.45	86.20	0.28	3
F02	23.40	14.70	87.95	-32.46	5.87	89.01	0.41	3
F03	35.10	12.60	92.83	52.50	-1.04	93.87	0.74	4
F04	30.60	12.60	86.28	48.71	-1.17	87.45	0.28	7
F05	17.70	10.20	80.95	126.45	-7.52	88.46	0.41	4
F06	12.30	7.50	50.01	99.36	-33.89	83.90	0.18	7
F07	33.00	6.90	153.73	115.15	8.25	161.98	5.01	2
F08	27.30	6.90	120.76	93.12	-5.29	126.06	2.69	3
F09	38.40	3.03	176.56	112.27	14.01	190.57	6.92	2
F10	33.00	3.03	238.91	120.06	10.72	249.64	11.15	2
F11	27.30	3.03	213.44	115.07	-11.72	225.16	9.38	7
F12	17.70	3.00	86.10	28.21	-10.05	96.16	0.84	3
F13	38.48	6.81	144.54	116.59	2.87	147.41	4.07	2
R01	33.00	2.55	186.50	-2.25	3.07	189.57	6.87	2

Erforderliche untere Bewehrung $a_{s,su}$ [cm^2/m] (Differenzbew.)

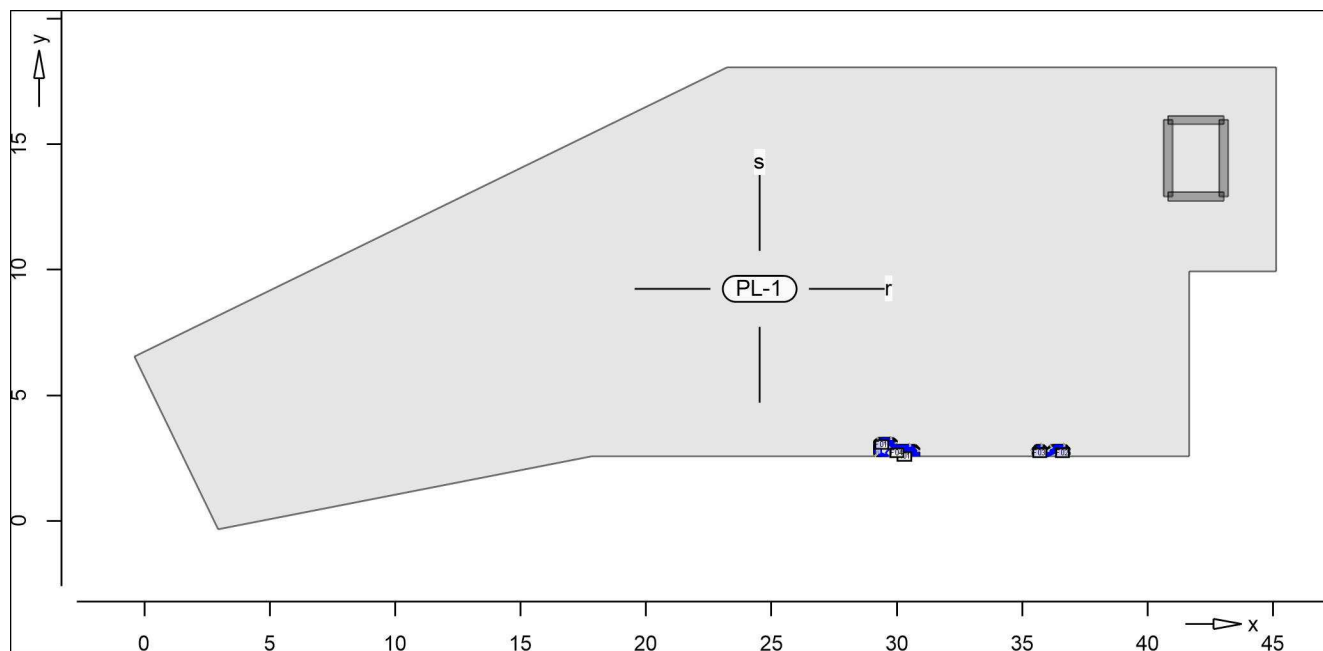


Isolinienstufen = 0.20 cm^2/m

Bew.-Abstand: $d',su = 3.0 \text{ cm}$
 Grundbewehrung: $a_{sg,su} = 5.03 \text{ cm}^2/\text{m}$

Punkt	x	y [m]	mrEd	msEd	mrsEd	mEd [kNm/m]	$a_{s,su}$ [cm^2/m]	Lkn
F01	30.90	10.50	30.93	79.10	7.64	86.75	0.28	7
F02	17.70	10.20	80.95	126.45	-7.52	133.97	3.27	7
F03	14.70	8.70	21.20	76.98	-20.20	97.18	0.84	7
F04	13.20	8.10	44.77	95.28	-29.16	124.45	2.62	7
F05	12.60	7.80	50.17	102.55	-32.23	134.77	3.27	7
F06	12.30	7.50	50.01	99.36	-33.89	133.25	3.17	7
F07	11.70	7.20	38.06	81.44	-38.22	119.65	2.29	7
F08	33.00	6.90	153.73	115.15	8.25	123.40	2.62	3
F09	27.30	6.90	120.76	93.12	-5.29	98.42	0.95	3
F10	10.20	6.60	21.77	64.68	-39.45	104.13	1.20	7
F11	9.60	6.30	36.70	77.54	-35.57	113.10	1.89	7
F12	9.00	6.00	45.81	83.06	-31.42	114.48	1.98	7
F13	8.40	5.70	49.33	82.84	-27.49	110.33	1.68	7
F14	8.10	5.40	44.83	65.93	-24.44	90.37	0.41	7
F15	4.80	3.90	19.96	65.49	-30.53	96.03	0.84	2
F16	4.20	3.60	16.66	57.90	-31.27	89.17	0.41	2
F17	38.40	3.03	173.69	112.01	15.06	127.07	2.77	7
F18	33.00	3.03	238.91	120.06	10.72	130.79	2.97	3
F19	27.30	3.03	213.39	115.06	-11.77	126.83	2.69	2
F20	38.48	6.81	144.54	116.59	2.87	119.46	2.29	3

Erforderliche obere Bewehrung $a_{s,ro}$ [cm^2/m] (Differenzbew.)

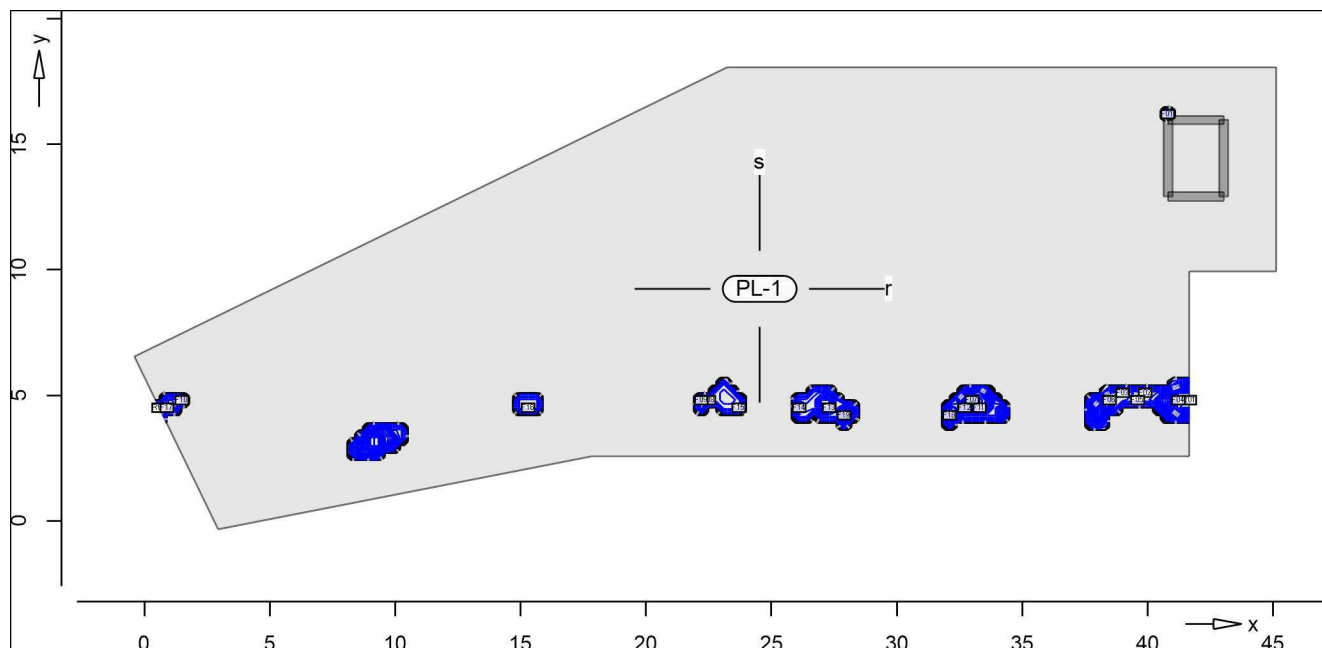


Isolinienstufen = $0.02 \text{ cm}^2/\text{m}$

Bew.-Abstand: $d',ro = 3.0 \text{ cm}$
 Grundbewehrung: $a_{sg,ro} = 5.03 \text{ cm}^2/\text{m}$

Punkt	x	y [m]	m_{rEd}	m_{sEd}	m_{rsEd}	m_{Ed} [kNm/m]	$a_{s,ro}$ [cm^2/m]	Lkn
F01	29.40	3.03	-71.17	-12.17	-13.17	-84.34	0.19	5
F02	36.60	2.70	-76.61	-3.47	7.34	-83.95	0.19	8
F03	35.70	2.70	-80.49	-3.72	-3.51	-84.00	0.19	8
F04	30.00	2.70	-84.92	-3.59	-1.22	-86.14	0.21	5
R01	30.30	2.55	-85.04	-0.74	1.22	-86.27	0.21	7

Erforderliche obere Bewehrung $a_{s,so}$ [cm^2/m] (Differenzbew.)



Isolinienstufen = 0.04 cm^2/m

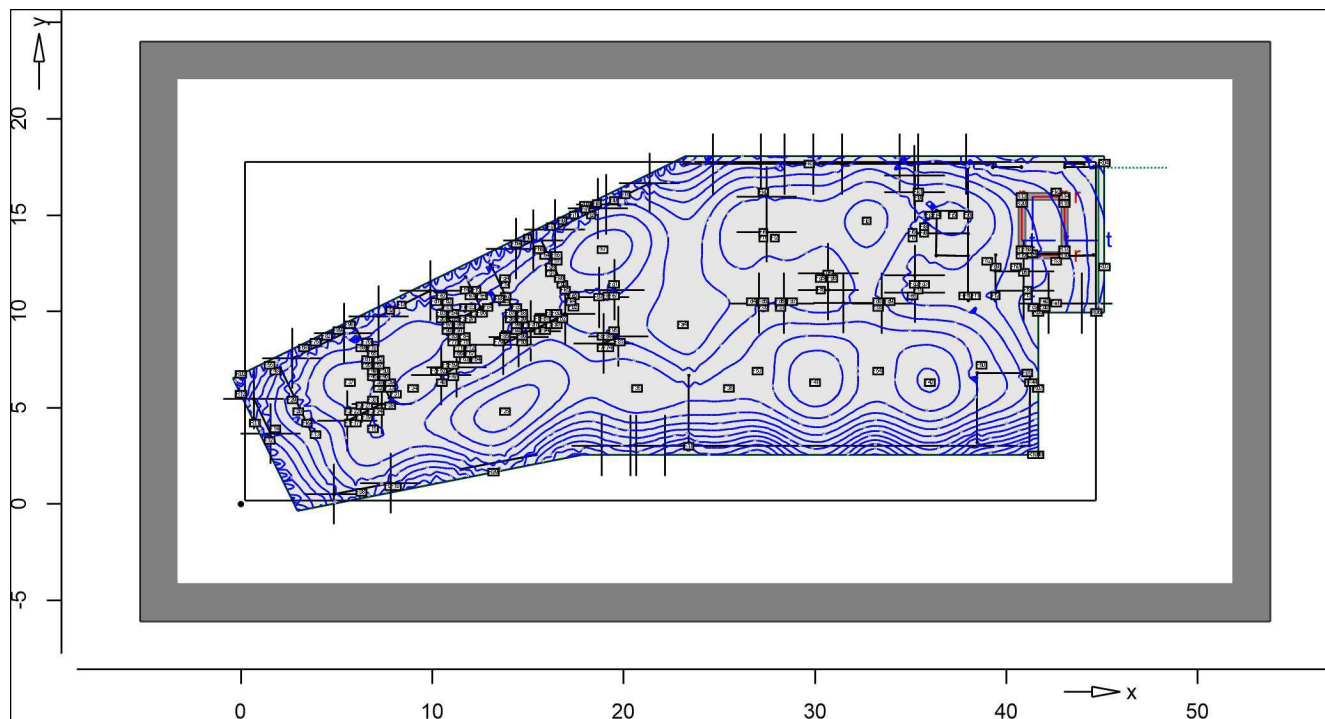
Bew.-Abstand: $d',so = 3.0 \text{ cm}$
 Grundbewehrung: $a_{sg,so} = 5.03 \text{ cm}^2/\text{m}$

Punkt	x	y [m]	m_{rEd}	m_{sEd}	m_{rsEd}	m_{Ed} [kNm/m]	$a_{s,so}$ [cm^2/m]	Lkn
F01	40.80	16.20	8.75	-72.72	14.68	-87.41	0.21	4
F02	39.90	5.10	-8.35	-79.26	4.86	-84.12	0.19	6
F03	39.00	5.10	10.15	-83.85	4.99	-86.30	0.21	6
F04	41.22	4.80	-5.98	-87.36	7.91	-95.27	0.79	1
F05	39.60	4.80	-3.49	-81.07	3.60	-84.67	0.19	6
F06	38.48	4.80	16.35	-86.67	5.96	-88.85	0.41	6
F07	33.00	4.80	56.02	-92.82	2.56	-92.94	0.72	6
F08	22.50	4.80	8.98	-83.27	2.85	-84.18	0.19	8
F09	22.20	4.80	2.43	-79.21	4.99	-84.20	0.19	8
F10	1.50	4.80	-15.20	-59.10	25.01	-84.11	0.19	2
F11	33.30	4.50	62.29	-91.96	-4.71	-92.31	0.52	5
F12	32.70	4.50	54.86	-87.78	12.76	-90.74	0.52	7
F13	27.30	4.50	44.32	-88.04	-4.60	-88.52	0.41	6
F14	26.10	4.50	13.59	-73.12	15.89	-89.02	0.41	8
F15	23.70	4.50	8.76	-78.28	-7.50	-84.70	0.19	2
F16	15.30	4.50	-18.42	-53.85	31.01	-84.86	0.19	8
F17	0.90	4.50	-11.72	-61.08	26.34	-87.42	0.21	5
F18	32.10	4.20	21.79	-63.37	28.38	-91.75	0.52	7
F19	27.90	4.20	26.93	-69.13	-24.96	-92.28	0.52	5
R01	41.66	4.80	-1.06	-92.11	4.05	-96.16	0.79	6
R02	0.59	4.50	-12.75	-59.90	26.41	-86.32	0.21	5

Pos. FLRB-1 - Flächenpressung lokal Ft

Translationssteifigkeit in $t = 2.0e+004 \text{ kN/m}^2$

System



Isolinienstep = 4.00 kN/m²

aus Lastkombination LK-1

Pressung Punkt	X [m]	Y [m]	max Ft [kN/m ²]
F01	41.09	6.80	62.31
F02	17.38	10.21	64.30
F03	11.15	9.50	58.25
F04	41.36	12.99	70.12
F05	40.92	12.02	71.35
F06	30.69	11.94	61.54
F07	18.72	10.74	61.67
F08	6.30	0.60	65.80
F09	7.80	0.90	69.21
F10	8.10	0.90	75.90
F11	23.40	3.00	74.42
F12	1.50	3.30	85.48
F13	3.90	3.60	64.69
F14	1.80	3.90	79.14
F15	6.90	3.90	55.86
F16	5.70	4.20	56.70
F17	6.00	4.20	58.94
F18	6.30	4.50	54.24
F19	6.60	4.50	57.89
F20	3.00	4.80	62.82
F21	5.70	4.80	58.62
F22	6.00	4.80	53.86

Pressung Punkt	X [m]	Y [m]	max Ft [kN/m ²]
F23	6.90	4.80	54.48
F24	7.20	4.80	58.90
F25	13.80	4.80	45.89
F26	6.30	5.10	57.65
F27	6.60	5.10	53.71
F28	7.80	5.10	61.13
F29	2.70	5.40	63.15
F30	6.90	5.40	58.73
F31	8.10	5.70	64.36
F32	7.20	6.00	59.12
F33	7.80	6.00	57.14
F34	9.00	6.00	61.92
F35	20.70	6.00	52.05
F36	25.50	6.00	54.75
F37	5.70	6.30	53.76
F38	7.20	6.30	54.94
F39	7.80	6.30	61.18
F40	10.50	6.30	61.69
F41	30.00	6.30	44.66
F42	36.00	6.30	47.39
F43	41.23	6.30	67.00
F44	41.40	6.30	64.42
F45	6.90	6.60	57.67
F46	7.50	6.60	55.30
F47	11.10	6.60	62.08
F48	1.80	6.90	82.82
F49	6.90	6.90	53.93
F50	7.50	6.90	59.32
F51	10.20	6.90	62.97
F52	10.50	6.90	59.89
F53	27.00	6.90	55.61
F54	33.30	6.90	55.53
F55	1.50	7.20	80.30
F56	6.60	7.20	57.71
F57	7.20	7.20	54.45
F58	10.80	7.20	63.36
F59	11.10	7.20	60.29
F60	38.70	7.20	58.85
F61	6.60	7.50	54.70
F62	7.20	7.50	59.06
F63	11.70	7.50	60.52
F64	12.30	7.50	65.18
F65	6.90	7.80	55.61
F66	11.40	7.80	64.59
F67	12.00	7.80	60.66
F68	3.30	8.10	63.92
F69	6.30	8.10	57.71
F70	6.90	8.10	61.20
F71	11.40	8.10	60.07
F72	12.00	8.10	65.64
F73	18.90	8.10	56.37
F74	19.20	8.10	60.61
F75	3.90	8.40	61.81
F76	6.60	8.40	59.11
F77	11.10	8.40	63.32
F78	11.70	8.40	60.14
F79	13.50	8.40	59.73
F80	14.70	8.40	59.94
F81	19.80	8.40	61.16

Pressung Punkt	X [m]	Y [m]	max Ft [kN/m ²]
F82	4.50	8.70	61.97
F83	11.10	8.70	58.81
F84	11.70	8.70	64.29
F85	13.80	8.70	64.26
F86	14.70	8.70	55.22
F87	18.90	8.70	61.71
F88	19.20	8.70	58.30
F89	5.10	9.00	63.82
F90	10.80	9.00	62.47
F91	11.40	9.00	59.10
F92	14.40	9.00	63.15
F93	15.60	9.00	55.50
F94	15.90	9.00	59.34
F95	19.50	9.00	64.08
F96	5.70	9.30	66.98
F97	10.80	9.30	58.20
F98	11.40	9.30	66.61
F99	14.40	9.30	57.03
Fa0	15.00	9.30	60.98
Fa1	15.30	9.30	56.77
Fa2	16.20	9.30	56.03
Fa3	16.50	9.30	60.60
Fa4	23.10	9.30	68.01
Fa5	10.50	9.60	63.41
Fa6	11.70	9.60	59.78
Fa7	12.00	9.60	63.95
Fa8	14.10	9.60	61.59
Fa9	14.70	9.60	56.50
Fb0	15.60	9.60	60.10
Fb1	15.90	9.60	55.94
Fb2	16.80	9.60	58.32
Fb3	10.50	9.90	59.80
Fb4	11.10	9.90	66.90
Fb5	12.30	9.90	60.88
Fb6	12.60	9.90	63.38
Fb7	14.10	9.90	57.37
Fb8	14.70	9.90	60.72
Fb9	16.20	9.90	60.82
Fc0	16.50	9.90	57.21
Fc1	10.80	10.20	61.64
Fc2	11.70	10.20	65.82
Fc3	12.00	10.20	60.01
Fc4	12.90	10.20	60.05
Fc5	14.40	10.20	56.44
Fc6	27.30	10.20	62.25
Fc7	28.20	10.20	62.10
Fc8	33.30	10.20	61.72
Fc9	41.40	10.20	75.17
Fd0	42.00	10.20	77.06
Fd1	10.20	10.50	63.39
Fd2	10.80	10.50	68.06
Fd3	13.80	10.50	63.17
Fd4	26.70	10.50	63.46
Fd5	27.30	10.50	58.73
Fd6	28.20	10.50	57.77
Fd7	28.80	10.50	63.00
Fd8	33.30	10.50	57.41
Fd9	33.90	10.50	63.41
Fe0	42.00	10.50	71.07

Pressung Punkt	X [m]	Y [m]	max Ft [kN/m ²]
Fe1	42.60	10.42	76.47
Fe2	10.50	10.80	66.58
Fe3	12.00	10.80	63.47
Fe4	12.60	10.80	66.52
Fe5	17.40	10.80	62.63
Fe6	19.20	10.80	57.99
Fe7	19.50	10.80	62.32
Fe8	35.10	10.80	62.49
Fe9	37.80	10.80	66.34
Ff0	38.01	10.80	63.87
Ff1	38.40	10.80	67.04
Ff2	39.43	10.80	69.14
Ff3	41.10	10.80	74.58
Ff4	11.70	11.10	71.03
Ff5	12.30	11.10	64.41
Ff6	30.30	11.10	63.74
Ff7	35.40	11.10	64.49
Ff8	41.10	11.10	70.15
Ff9	13.80	11.40	60.25
Fg0	16.80	11.40	60.24
Fg1	19.50	11.40	57.02
Fg2	35.21	11.40	67.46
Fg3	35.70	11.40	65.67
Fg4	13.80	11.70	66.50
Fg5	30.30	11.70	63.86
Fg6	30.90	11.70	63.30
Fg7	16.20	12.00	59.53
Fg8	16.20	12.30	56.26
Fg9	39.44	12.30	67.79
Fh0	40.50	12.30	68.30
Fh1	16.50	12.60	55.84
Fh2	39.00	12.60	64.54
Fh3	42.60	12.60	72.19
Fh4	15.90	12.90	59.48
Fh5	16.50	12.90	61.33
Fh6	15.60	13.20	66.82
Fh7	18.90	13.20	53.60
Fh8	41.10	13.20	72.46
Fh9	14.40	13.50	69.17
Fi0	15.00	13.80	66.93
Fi1	27.30	13.80	58.92
Fi2	27.90	13.80	56.65
Fi3	35.10	13.80	62.91
Fi4	27.30	14.10	55.67
Fi5	35.10	14.10	59.08
Fi6	35.70	14.05	62.31
Fi7	16.20	14.40	64.40
Fi8	35.70	14.40	59.73
Fi9	16.80	14.70	60.79
Fj0	32.70	14.70	54.31
Fj1	17.40	15.00	60.03
Fj2	18.30	15.00	59.22
Fj3	36.00	15.00	60.55
Fj4	36.35	15.00	58.48
Fj5	37.20	15.00	58.92
Fj6	38.01	15.00	58.73
Fj7	18.00	15.30	60.02
Fj8	18.60	15.60	61.47
Fj9	35.40	15.90	62.89

Pressung Punkt	X [m]	Y [m]	max Ft [kN/m ²]
Fk0	27.30	16.20	64.64
Fk1	35.40	16.20	60.82
Fk2	42.60	16.20	75.61
Fk3	29.70	17.64	69.65
Fk4	17.24	10.50	57.31
Fk5	16.95	11.10	54.89
Fk6	16.66	11.70	53.46
Fk7	13.84	10.79	56.45
Fk8	13.50	10.65	56.95
Fk9	3.45	4.20	61.65
F10	19.50	15.75	61.26
F11	20.10	16.05	62.77
F12	7.80	10.05	61.66
F13	8.40	10.34	61.04
R01	18.00	15.51	60.20
R02	0.00	6.73	102.67
R03	45.13	12.30	83.89
R04	45.13	17.70	89.81
R05	41.66	9.94	74.19
R06	44.70	9.94	83.74
R07	41.66	6.00	66.14
R08	41.66	2.55	106.81
R09	13.20	1.65	61.57
R10	41.40	2.55	105.58
R11	0.74	4.20	75.71
R12	0.00	5.70	93.85
R13	40.81	15.97	72.02
R14	43.03	15.97	79.28
R15	40.81	12.92	69.86
R16	43.03	12.92	75.60
R17	43.03	13.20	74.91
R18	43.03	15.60	77.92
R19	40.81	13.20	69.71
R20	40.81	15.60	72.32

E Závěr

Výstupem programu jsou izolinie plochy výztuže železobetonových desek a návrhová výztuž sloupů, stěn a průvlaků. V tomto stupni projektu jsou doloženy pouze ty výstupy, které jsou třeba jako podklady pro vykreslení schémat výztuže.

Veškeré navrhované prvky vyhoví pro dané zatížení z hlediska únosnosti i použitelnosti.

V Ostravě, listopad 2017

Vypracoval : Ing. Jiří Červinka