

Verbund- und Querkraftbemessung

Baunummer **57-3-270-02**

Bauvorhaben **Weißbarr 3, 55743 Idar-Oberstein**

Bauteil **Obergeschoss**

Index **I**

verwendete Gitterträger

Typ	Zulassung	Untergurt [mm]	Obergurt [mm]	Diagonale [mm]	Hoehe [cm]
KTS 116	Z-15.1-38	6	6	7	16.00
KT 815	Z-15.1-1	6	8	6	15.00
KT 817	Z-15.1-1	6	8	6	17.00

Eingabewerte

Pos.	Breite [m]	Länge [m]	Träger Typ	Anz.	h [cm]	d [cm]	c [cm]	nom [cm]	Beton [kN/m ²]	Ved [kN/m]	As [cm ² /m]	vorh. ZugBew.	Snd. [kN]	Last [m]	Lastabst. [m]	Abst. rechts [m]
l 1	1.69	4.60	KT 815	3	25.0	21.0	3.0	C 25/30	80.00	80.00	3.35					
r 1										80.00	3.35					
l 2	1.22	4.34	KT 815	2	25.0	21.0	3.0	C 25/30	80.00	80.00	3.35					
r 2										80.00	3.35					
l 3	1.78	5.57	KT 817	3	25.0	22.0	2.0	C 25/30	80.00	80.00	3.35					
r 3										80.00	3.35					
l 4	1.22	5.57	KT 817	2	25.0	22.0	2.0	C 25/30	80.00	80.00	3.35					
r 4										80.00	3.35					
l 5	1.22	9.87	KT 817	4	25.0	22.0	2.0	C 25/30	80.00	80.00	3.35					
r 5										80.00	3.35					
l 6	1.22	9.81	KT 817	4	25.0	22.0	2.0	C 25/30	80.00	80.00	3.35					
r 6										80.00	3.35					
l 7	1.22	9.59	KT 817	4	25.0	22.0	2.0	C 25/30	80.00	80.00	3.35					
r 7										80.00	3.35					
l 8	1.22	9.37	KT 817	4	25.0	22.0	2.0	C 25/30	80.00	80.00	3.35					
r 8										80.00	3.35					
l 9	1.22	9.15	KT 817	4	25.0	22.0	2.0	C 25/30	80.00	80.00	3.35					
r 9										80.00	3.35					
l 10	1.22	8.93	KT 817	4	25.0	22.0	2.0	C 25/30	80.00	80.00	3.35					
r 10										80.00	3.35					
l 11	1.22	8.71	KT 817	4	25.0	22.0	2.0	C 25/30	80.00	80.00	3.35					
r 11										80.00	3.35					
l 12	1.22	9.91	KT 817	4	25.0	22.0	2.0	C 25/30	80.00	80.00	3.35					
r 12										80.00	3.35					
l 13	1.00	9.91	KT 817	3	25.0	22.0	2.0	C 25/30	80.00	80.00	3.35					
r 13										80.00	3.35					
l 14	1.00	9.91	KT 817	3	25.0	22.0	2.0	C 25/30	80.00	80.00	3.35					
r 14										80.00	3.35					
l 15	0.90	9.88	KT 817	3	25.0	22.0	2.0	C 25/30	80.00	80.00	3.35					
r 15										80.00	3.35					
l 16	1.00	4.41	KT 817	2	25.0	22.0	2.0	C 25/30	80.00	80.00	3.35					
r 16										80.00	3.35					
l 17	0.80	8.01	KT 817	3	25.0	22.0	2.0	C 25/30	80.00	80.00	3.35					

Eingabewerte

Pos.	Breite	Länge	Typ	Anz.	h	d	c	nom	Beton	Ved	As vorh.	Snd. Last	Lastabst.	Abst. rechts
[s]l/r	[m]	[m]	Träger Montage		[cm]	[cm]		[cm]	[kN/m ²]	[kN/m]	ZugBew. [cm ² /m]	[kN]	[m]	[m]
r 17										80.00	3.35			
l 18	1.22	8.22	KT 817	4	25.0	22.0		2.0	C 25/30	80.00	3.35			
r 18										80.00	3.35			
l 19	1.22	8.44	KT 817	4	25.0	22.0		2.0	C 25/30	80.00	3.35			
r 19										80.00	3.35			
l 20	1.22	8.66	KT 817	4	25.0	22.0		2.0	C 25/30	80.00	3.35			
r 20										80.00	3.35			
l 21	1.22	8.88	KT 817	4	25.0	22.0		2.0	C 25/30	80.00	3.35			
r 21										80.00	3.35			
l 22	1.22	9.10	KT 817	4	25.0	22.0		2.0	C 25/30	80.00	3.35			
r 22										80.00	3.35			
l 23	1.22	9.32	KT 817	4	25.0	22.0		2.0	C 25/30	80.00	3.35			
r 23										80.00	3.35			
l 24	1.22	9.54	KT 817	4	25.0	22.0		2.0	C 25/30	80.00	3.35			
r 24										80.00	3.35			
l 25	1.22	9.75	KT 817	4	25.0	22.0		2.0	C 25/30	80.00	3.35			
r 25										80.00	3.35			
l 26	1.22	9.87	KT 817	4	25.0	22.0		2.0	C 25/30	80.00	3.35			
r 26										80.00	3.35			
l 27	1.22	8.27	KT 817	4	25.0	22.0		2.0	C 25/30	80.00	3.35			
r 27										80.00	3.35			
l 28	1.22	8.53	KT 817	4	25.0	22.0		2.0	C 25/30	80.00	3.35			
r 28										80.00	3.35			
l 29	1.22	8.75	KT 817	4	25.0	22.0		2.0	C 25/30	80.00	3.35			
r 29										80.00	3.35			
l 30	1.24	8.97	KT 817	4	25.0	22.0		2.0	C 25/30	80.00	3.35			
r 30										80.00	3.35			

Ausgabewerte

Verbundnachweis

Querkraftnachweis

Pos.	Vrd,c	Bew	Hebel	Ved	Vrd,c	Vrd,sy	Typ	Anz.	Vrd,sy	Vrd,sy	Länge	Vrd, zul.	Vrd,cc	erf.As	vorh. as	cot	Vrd, zul.
[s]l/r		Art	arm z	Fuge	Fuge	Gt.-	Träger	Platte	Fuge	Fuge	gew.	Fuge		Quer-		teta	Quer-
	[kN/m]	V/Q	[cm]	[kN/m ²]	[kN/m ²]	Montage	Zulage	Breite	Zulage	Gesamt	[m]	[kN/m ²]	[kN/m ²]	[cm ² /m]	[cm ² /m]		[kN/m]
l 1	102.07	V	18.9	423.28	408.00	225.39	-	-	-	633.39	-	2800.00	-	-	-	-	-
r 1	102.07	V	18.9	423.28	408.00	225.39	-	-	-	633.39	-	2800.00	-	-	-	-	-
l 2	102.07	V	18.9	423.28	408.00	207.53	-	-	-	615.53	-	2800.00	-	-	-	-	-
r 2	102.07	V	18.9	423.28	408.00	207.53	-	-	-	615.53	-	2800.00	-	-	-	-	-
l 3	105.12	V	19.8	404.04	408.00	208.68	-	-	-	616.68	-	2800.00	-	-	-	-	-
r 3	105.12	V	19.8	404.04	408.00	208.68	-	-	-	616.68	-	2800.00	-	-	-	-	-
l 4	105.12	V	19.8	404.04	408.00	202.98	-	-	-	610.98	-	2800.00	-	-	-	-	-
r 4	105.12	V	19.8	404.04	408.00	202.98	-	-	-	610.98	-	2800.00	-	-	-	-	-
l 5	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
r 5	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
l 6	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
r 6	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
l 7	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
r 7	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
l 8	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
r 8	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
l 9	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
r 9	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
l 10	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
r 10	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
l 11	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
r 11	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
l 12	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
r 12	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
l 13	105.12	V	19.8	404.04	408.00	371.45	-	-	-	779.45	-	2800.00	-	-	-	-	-
r 13	105.12	V	19.8	404.04	408.00	371.45	-	-	-	779.45	-	2800.00	-	-	-	-	-
l 14	105.12	V	19.8	404.04	408.00	371.45	-	-	-	779.45	-	2800.00	-	-	-	-	-
r 14	105.12	V	19.8	404.04	408.00	371.45	-	-	-	779.45	-	2800.00	-	-	-	-	-
l 15	105.12	V	19.8	404.04	408.00	412.72	-	-	-	820.72	-	2800.00	-	-	-	-	-
r 15	105.12	V	19.8	404.04	408.00	412.72	-	-	-	820.72	-	2800.00	-	-	-	-	-
l 16	105.12	V	19.8	404.04	408.00	247.63	-	-	-	655.63	-	2800.00	-	-	-	-	-
r 16	105.12	V	19.8	404.04	408.00	247.63	-	-	-	655.63	-	2800.00	-	-	-	-	-
l 17	105.12	V	19.8	404.04	408.00	467.23	-	-	-	875.23	-	2800.00	-	-	-	-	-
r 17	105.12	V	19.8	404.04	408.00	467.23	-	-	-	875.23	-	2800.00	-	-	-	-	-
l 18	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
r 18	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
l 19	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
r 19	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-

Ausgabewerte

Verbundnachweis

Querkraftnachweis

Pos.	Vrd,c	Bew	Hebel	Ved	Vrd,c	Vrd,sy	Typ	Anz.	Vrd,sy	Vrd,sy	Länge	Vrd, zul.	Vrd,cc	erf.As	vorh. as	cot	Vrd, zul.
[s]l/r	[kN/m]	Art	arm z	Fuge	Fuge	Gt.-	Träger	Platte	Fuge	Fuge	gew.	Fuge	[kN/m ²]	Quer-	vorh	teta	Quer-
		V/Q	[cm]	[kN/m ²]	[kN/m ²]	Montage	Zulage	Breite	Zulage	Gesamt	[m]	[kN/m ²]	[kN/m ²]	[cm ² /m]	[cm ² /m]		[kN/m]
l 20	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
r 20	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
l 21	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
r 21	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
l 22	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
r 22	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
l 23	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
r 23	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
l 24	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
r 24	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
l 25	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
r 25	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
l 26	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
r 26	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
l 27	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
r 27	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
l 28	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
r 28	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
l 29	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
r 29	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
l 30	105.12	V	19.8	404.04	408.00	399.41	-	-	-	807.41	-	2800.00	-	-	-	-	-
r 30	105.12	V	19.8	404.04	408.00	399.41	-	-	-	807.41	-	2800.00	-	-	-	-	-