

E I N G A B E N -- Programm ROHR2 SIGMA/32.1 -- Seite 1
Auftrag 190204.TUM-Da Datum 03.07.19 09:02:07
Erweiterung Klärwerk Rosental

CCC *****
CCC Spannungsanalyse
CCC *****
CCC

Ergebnisse an einem internen Punkt werden nur dann dokumentiert,
wenn die Spannungsausnutzung >90% ist.

WWWWW Fuer den Werkstoff X6CRNIMOTI17 WWWWW
WWWWW sind niedrigere Temperaturen eingegeben worden als in WWWWW
WWWWW Werkstoffdatei definiert. Es werden die Werkstoffkennwerte der WWWWW
WWWWW naechst hoeheren Temperatur aus der Werkstoffdatei uebernommen. WWWWW

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Spannungsnachweise nach EuroNorm EN 13480 Teil 3

Stand 2017

Automatische Ermittlung der zul. Spannung nach folgenden Regeln:

Die zulaessigen Spannungen f , f_c , f_h und f_a werden vom Programm nach der EN-Norm 13480-3, Kapitel 5 und 12.1.3 Zul. Spannungen mit den Festigkeitswerten der Werkstoffdatei ermittelt, sofern vom Anwender keine zul. Spannungen vorgegeben wurden.

```
ff = min(Rm\RT\min/2.4, Rp1.0\T\min/1.5, Rm\200000\mitt/SFcr) (5.2.2-2)
fa1= (1.25*fc + 0.25*f_h) * E-Modul\T / E-Modul\RT
fa = U * fa1 (12.1.3-1)
fc = min (Rm\RT\min/3.0 , f_RT ) (12.1.3-2)
fh = min (ff , fc) (12.1.3-3)
```

Die zul. Spannungen werden für eine Lebensdauer von 200000h ermittelt.

```
Rm\RT\min      =Zugfestigkeit 20 Grad C Mindestw.      in N/mm^2
Rp02\T\min     =0.2% Streckgrenze BerechnTemp Mindestw. in N/mm^2
Rp1.0\T\min    =1.0% Streckgrenze Berechn.-T. Mindestw. in N/mm^2
Rm\200000\mitt =Zeitstandfestigkeit 200000h Mittelwert  in N/mm^2
SFcr           =Sicherheitsbeiwert fuer die mittlere Zeitstandsfestigkeit
f_RT          =f nach 5.2 bei Raumtemperatur errechnet
```

Erlaeuterungen:

Der Sicherheitsbeiwert SF_{cr} wird nach Tabelle 5.3.2-1 ermittelt.
Es wurde keine Überwachung der Zeitstanderschöpfung berücksichtigt.
 SF_{cr} für Stahlguss wird in Anlehnung an EN 12516-2 bei 100000 Std. mit $SF_{cr}=1.5$ gerechnet. Für Bruchdehnung kleiner 30 % wird $SF_{cr}=1.9$ gesetzt.

Der Faktor U (von Lastwechselzahl abhaengiger Spannungs-Reduktionsfaktor) kann ueber R2WIN oder ueber den SPI-Datensatz eingegeben werden.

EN 13480-3 Edit.2017		Material M01: X6CRNIMOTI17		Austenite	
Material: X6CRNIMOTI17-12-2 / 1.4571					
benutzerdefinierte Materialeigenschaften:					
Materialkennwert		Quelle		Stand	
E-Modul		EN 13480		12/2014	
Ausdehnungskoeffizient		EN 13480		12/2014	
Zugfestigkeit		EN 10216-5		03/2014	
0.2% Dehngrenze		EN 10216-5		03/2014	
1% Dehngrenze		EN 10216-5		03/2014	
Zeitstandfestigkeit (mitt.) 10000h		EN 10222-5		02/1999	
Zeitstandfestigkeit (mitt.) 100000h		EN 10222-5		02/1999	
Temperatur T °C	40.00	-15.00			
E-Mod\kalt kN/mm^2	199.96	199.96			
E-Mod\warm kN/mm^2	198.26	199.96			
Wanddicken mm	0 - 20	0 - 20			
Bruchdehnung in %	30.00				
in N/mm^2					
Rm\RT\min	490.00	490.00			
Rp1.0\RT\min	225.00	225.00			
Rp1.0\T\min	219.67	225.00			
Rm\200000\mitt	-.-	-.-			
SFcr	1.50	1.50			
Rm\RT\min/2.4	204.17	204.17			
Rp1.0\T\min /1.5	146.44	150.00			
Rm\200000\mitt/SFcr	-.-	-.-			
ff (5.2.2-2)	146.44	150.00			
Rm\RT\min/3.0	163.33	163.33			
Rp1.0\RT\min/1.5	150.00	150.00			
fc	150.00	150.00			
fh	146.44	150.00			
fcr	-.-	-.-			
E-mod\w / E-mod\k	0.992	1.00			
fa1 = fa/U	222.21	225.00			
min(Rm\RT, 2*Rp\T)					
or 0.3*Rp\RT	439.33	450.00			

S P A N N U N G E N -- Programm ROHR2
Auftrag 190204.TUM-Da
Erweiterung Klärwerk Rosental

SIGMA/32.1 -- Seite 4
Datum 03.07.19 09:02:07

Den Spannungsnachweisen liegen folgende Lastfaelle zugrunde :

Lf-Datei	Lf-Feld	Lf-Bezeichnung	erstellt am:	
gew1.erg	G1	Gewicht	03.07.19	09:02:05
gell.erg	E1	Schnee	03.07.19	09:02:05
temp1.erg	T1	Betrieb max	03.07.19	09:02:05
temp2.erg	T2	Abfahren	03.07.19	09:02:06
temp3.erg	T3	Betrieb min	03.07.19	09:02:05
wind1.erg	W00	Wind_X	03.07.19	09:02:05
wind1.erg	W01	Wind_Y	03.07.19	09:02:05

Gedruckte Querschnittsdaten sind Nominalabmessungen.
 Ausgabe interner ROHR2Win Punkte unterdrueckt, wenn Ausnutzung < 90.0 %

U E B E R L A G E R U N G S V O R S C H R I F T

Lf-Feld TMP	Lastf. Temp.0	= ARITHMET aus:	
	Lf-Feld T1	Lastf. Betrieb max	* 1.00
	+ Lf-Feld G1	Lastf. Gewicht	* -1.00
Lf-Feld TMP1	Lastf. Temp.1	= ARITHMET aus:	
	Lf-Feld T2	Lastf. Abfahren	* 1.00
	+ Lf-Feld G1	Lastf. Gewicht	* -1.00
Lf-Feld TMP2	Lastf. Temp.3	= ARITHMET aus:	
	Lf-Feld T3	Lastf. Betrieb min	* 1.00
	+ Lf-Feld G1	Lastf. Gewicht	* -1.00
Lf-Feld WRMS	Lastf. Wind-XY	= SRSS aus:	
	Lf-Feld W00	Lastf. Wind_X	* 1.00
	+ Lf-Feld W01	Lastf. Wind_Y	* 1.00
LC Group GRP_T	Temperaturlasten:		
	Lf-Feld TMP	Lastf. Temp.0	
	Lf-Feld TMP1	Lastf. Temp.1	
	Lf-Feld TMP2	Lastf. Temp.3	

Angeforderte GLEICHUNGEN:

EN 13480-3 Table H1/H2: $ii=io=it=i$
Der Druckterm SLP wird aus $P_c \cdot d_o / 4en$ errechnet.

EN 13480-3 Nachweis 01 Maximum aus
 $S1a = |Fa/Ac| + .75i \cdot MA/Zc < ff$ (PRA2 12.3.2-2)
und $S1b = SLP + .75i \cdot MA/Z < ff$ (12.3.2-1)
 $Fa = \max(|Qx+Fp|, |Qx|, |Fp|); Fp = P \cdot \pi / 4 \cdot Di^2$
 $P = P_c$ (Berechnungsdruck)
 Qx, MiA, MoA, MtA aus Lastfall Gewicht
 ff aus MATDAT errechnet oder aus ET-Satz Faktor = 1.00

EN 13480-3 Nachweis 02 Maximum aus
 $S4a = S1a + |ia \cdot (FaCk - FaCj) / A| + \sqrt{(iij \cdot MiCj - iik \cdot MiCk)^2 + (ioj \cdot MoCj - iok \cdot MoCk)^2 + (itj \cdot MtCj - itk \cdot MtCk)^2 / Z} < fa + ff$ (PRA2 12.3.4-4)
und $S4b = S1b + \sqrt{(iij \cdot MiCj - iik \cdot MiCk)^2 + (ioj \cdot MoCj - iok \cdot MoCk)^2 + (itj \cdot MtCj - itk \cdot MtCk)^2 / Z} < fa + ff$ (12.3.4-2)
 $Fa = Qx; Fp = 0$
 $P = P_c$ (Berechnungsdruck)
 Qx, MiA, MoA, MtA aus Lastfall Gewicht
 $Qx, MiC, MoC, MtC = \text{RANGE}$ aus Lastfall Temp.0
+ Temp.1
+ Temp.3
 ff aus MATDAT errechnet oder aus ET-Satz Faktor = 1.00
 fa aus MATDAT errechnet oder aus ET-Satz
Ermüdungsfaktor $U = 1.00$
 P, Ma fuer die Ermittlung von SL in Gleichung SE
 $ME = ME \cdot E\text{-MODkalt} / E\text{-MODwarm}$

EN 13480-3 Nachweis 03 Maximum aus
 $S2a = S1a + |FaB/Ac| + .75i \cdot MB/Zc < k \cdot ff$ (PRA2 12.3.3-2)
und $S2b = S1b + .75i \cdot MB/Z < k \cdot ff$ (12.3.3-1)
 $Fa = |Qx| + |Fp|; Fp = dP \cdot \pi / 4 \cdot Di^2; dP = \max(P(LFMA) - P(LFMB), 0)$
 $P = P_c$ (Berechnungsdruck)
 Qx, MiA, MoA, MtA aus Lastfall Gewicht
 Qx, MiB, MoB, MtB aus Lastfall Schnee
 ff aus MATDAT errechnet oder aus ET-Satz Faktor = 1.00

EN 13480-3 Nachweis 04 Maximum aus
 $S2a = S1a + |FaB/Ac| + .75i \cdot MB/Zc < k \cdot ff$ (PRA2 12.3.3-2)
und $S2b = S1b + .75i \cdot MB/Z < k \cdot ff$ (12.3.3-1)
 $Fa = |Qx| + |Fp|; Fp = dP \cdot \pi / 4 \cdot Di^2; dP = \max(P(LFMA) - P(LFMB), 0)$
 $P = P_c$ (Berechnungsdruck)
 Qx, MiA, MoA, MtA aus Lastfall Gewicht
 Qx, MiB, MoB, MtB aus Lastfall Wind-XY
 ff aus MATDAT errechnet oder aus ET-Satz Faktor = 1.00

Pt 139 Str 10 n M01 Da= 1220.0 mm s= 10.0 mm (VUU) V-Naht Umf.,Ubear.
 ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bn	0.5	56.5	0.000	0.000	0.000	0.0	1.5	146.4	1
02	S4bn	S1b= 1.5		0.000	0.000	0.000	0.0	1.5	368.7	0
03	S2bn	S1b= 1.5		0.000	0.000	0.000	0.0	1.5	146.4	1
04	S2bn	S1b= 1.5		0.000	0.000	0.000	0.0	1.5	146.4	1

Pt 137 Str 10 v M01 Da= 1220.0 mm s= 10.0 mm (BGL) Bogen GLatt
 Str 10 m M01 Da= 1220.0 mm s= 10.0 mm R= 1830.0 mm
 Str 10 n M01 Da= 1220.0 mm s= 10.0 mm ii= 6.3 io= 6.3

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1av	0.5	62.8	-5.741	0.000	0.000	2.4	4.0	146.4	3
01	S1am	0.5	73.9	-15.275	0.000	0.000	6.4	8.3	146.4	6
01	S1an	0.5	87.1	-24.623	0.000	0.000	10.2	12.5	146.4	9
02	S4av	S1a= 4.0		0.000	0.000	0.000	0.0	4.0	368.7	1
02	S4am	S1a= 8.3		0.000	0.000	0.000	0.0	8.3	368.7	2
02	S4an	S1a= 12.5		0.000	0.000	0.000	0.0	12.5	368.7	3
03	S2av	S1a= 4.0		-0.199	0.000	0.000	0.1	4.1	146.4	3
03	S2am	S1a= 8.3		-0.529	0.000	0.000	0.2	8.5	146.4	6
03	S2an	S1a= 12.5		-0.852	0.000	0.000	0.4	12.9	146.4	9
04	S2av	S1a= 4.0		0.103	0.223	0.000	0.1	4.1	146.4	3
04	S2am	S1a= 8.3		0.308	0.625	0.152	0.3	8.6	146.4	6
04	S2an	S1a= 12.5		0.649	1.162	0.480	0.6	13.1	146.4	9

Pt 133 Str 10 v M01 Da= 1220.0 mm s= 10.0 mm (VUU) V-Naht Umf.,Ubear.
 Str 10 n M01 Da= 1220.0 mm s= 10.0 mm ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1av	0.5	107.4	0.000	47.390	0.000	5.6	8.4	146.4	6
01	S1bn	0.5	56.5	0.000	47.390	0.000	5.6	7.1	146.4	5
02	S4av	S1a= 8.4		0.000	0.000	0.000	0.0	8.4	368.7	2
02	S4an	S1a= 7.1		0.000	0.000	0.000	0.0	7.4	368.7	2
03	S2av	S1a= 8.4		0.000	1.520	0.000	0.2	8.6	146.4	6
03	S2bn	S1b= 7.1		0.000	1.520	0.000	0.2	7.3	146.4	5
04	S2av	S1a= 8.4		3.455	2.116	0.480	0.5	8.9	146.4	6
04	S2an	S1a= 7.1		3.454	2.116	0.480	0.5	7.7	146.4	5

Pt 131 Str 10 v M01 Da= 1220.0 mm s= 10.0 mm (VUU) V-Naht Umf.,Ubear.
 Str 10 n M01 Da= 1220.0 mm s= 10.0 mm ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	56.5	-0.277	13.182	0.000	1.6	3.1	146.4	2
01	S1bn	0.5	56.5	-0.277	13.182	-0.004	1.6	3.1	146.4	2
02	S4bv	S1b= 3.1		29.537	46.127	0.000	8.6	11.7	368.7	3
02	S4bn	S1b= 3.1		29.533	46.127	0.466	8.6	11.7	368.7	3
03	S2bv	S1b= 3.1		0.017	0.875	0.000	0.1	3.2	146.4	2
03	S2bn	S1b= 3.1		0.017	0.875	0.000	0.1	3.2	146.4	2
04	S2av	S1a= 3.0		6.176	3.703	0.480	0.9	4.0	146.4	3
04	S2an	S1a= 3.0		6.183	3.703	0.385	0.9	4.0	146.4	3

Pt 129 Str 10 v M01 Da= 1220.0 mm s= 10.0 mm (BGL) Bogen GLatt
 Str 10 m M01 Da= 1220.0 mm s= 10.0 mm R= 1830.0 mm
 Str 10 n M01 Da= 1220.0 mm s= 10.0 mm ii= 6.3 io= 6.3

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	56.5	0.256	-12.631	-0.004	5.3	6.8	146.4	5
01	S1bm	0.5	56.5	-6.560	-1.634	-5.254	3.6	5.1	146.4	3
01	S1bn	0.5	56.5	-2.063	1.379	-4.729	2.2	3.7	146.4	3
02	S4bv	S1b= 6.8		30.424	47.278	0.469	31.2	38.0	368.7	10
02	S4am	S1a= 5.0		47.514	60.333	43.895	49.1	54.3	368.7	15
02	S4an	S1a= 3.7		54.801	38.330	84.569	59.8	63.9	368.7	17
03	S2bv	S1b= 6.8		-0.019	-0.862	0.000	0.4	7.1	146.4	5
03	S2bm	S1b= 5.1		-0.204	-0.406	-0.515	0.3	5.4	146.4	4
03	S2bn	S1b= 3.7		-0.359	0.172	-0.603	0.3	4.0	146.4	3
04	S2av	S1a= 6.7		6.409	3.813	0.385	3.1	10.0	146.4	7
04	S2am	S1a= 5.0		9.342	4.790	3.770	4.6	9.8	146.4	7
04	S2an	S1a= 3.7		8.644	2.179	6.689	4.6	8.4	146.4	6

Pt 127 Str 10 v M01 Da= 1220.0 mm s= 10.0 mm (VUU) V-Naht Umf.,Ubear.
 Str 10 n M01 Da= 1220.0 mm s= 10.0 mm ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	56.8	-1.354	83.517	-4.729	9.9	11.4	146.4	8
01	S1bn	0.5	56.5	-1.354	83.517	-4.729	9.9	11.4	146.4	8
02	S4av	S1a= 11.4		106.429	21.747	84.569	21.7	33.5	368.7	9
02	S4an	S1a= 11.4		106.429	21.747	84.569	21.7	33.8	368.7	9
03	S2bv	S1b= 11.4		-0.132	1.549	-0.603	0.2	11.6	146.4	8
03	S2bn	S1b= 11.4		-0.132	1.549	-0.603	0.2	11.6	146.4	8
04	S2av	S1a= 11.4		5.738	12.458	6.689	1.8	13.3	146.4	9
04	S2an	S1a= 11.4		5.738	12.458	6.689	1.8	13.3	146.4	9

Pt 125 Str 10 v M01 Da= 1220.0 mm s= 10.0 mm (BGL) Bogen GLatt
 Str 10 m M01 Da= 1220.0 mm s= 10.0 mm R= 1830.0 mm
 Str 10 n M01 Da= 1220.0 mm s= 10.0 mm ii= 6.3 io= 6.3

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	56.5	-2.466	-27.685	-4.729	11.7	13.3	146.4	9
01	S1bm	0.5	56.8	-2.824	0.008	-18.147	7.6	9.2	146.4	6
01	S1bn	0.5	56.8	-2.829	55.234	2.780	23.0	24.6	146.4	17
02	S4av	S1a= 13.2		68.208	19.335	84.570	61.2	75.1	368.7	20
02	S4am	S1a= 9.1		109.349	46.887	73.157	77.5	87.9	368.7	24
02	S4an	S1a= 24.5		98.838	85.642	18.262	73.2	98.9	368.7	27
03	S2bv	S1b= 13.3		-0.266	-1.652	-0.603	0.7	14.0	146.4	10
03	S2bm	S1b= 9.2		-0.301	0.253	-1.259	0.5	9.7	146.4	7
03	S2bn	S1b= 24.6		-0.295	3.085	0.047	1.3	25.8	146.4	18
04	S2av	S1a= 13.2		1.516	4.537	6.689	3.4	16.7	146.4	11
04	S2am	S1a= 9.1		1.880	3.618	6.647	3.2	12.5	146.4	9
04	S2an	S1a= 24.5		4.036	8.892	1.572	4.1	28.7	146.4	20

Pt 123 Str 10 v M01 Da= 1220.0 mm s= 10.0 mm (VUU) V-Naht Umf.,Ubear.
 Str 10 n M01 Da= 1220.0 mm s= 10.0 mm ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	56.8	-3.269	73.128	2.780	8.7	10.2	146.4	7
01	S1bn	0.5	56.8	-3.269	73.128	2.780	8.7	10.2	146.4	7
02	S4av	S1a= 10.2		89.238	85.247	18.262	19.7	31.0	368.7	8
02	S4an	S1a= 10.2		89.238	85.247	18.262	19.7	32.4	368.7	9
03	S2bv	S1b= 10.2		-0.314	3.893	0.047	0.5	10.7	146.4	7
03	S2bn	S1b= 10.2		-0.314	3.893	0.047	0.5	10.7	146.4	7
04	S2av	S1a= 10.2		4.632	9.460	1.572	1.3	11.5	146.4	8
04	S2an	S1a= 10.2		4.632	9.460	1.572	1.3	11.5	146.4	8

Pt 121 Str 10 v M01 Da= 1220.0 mm s= 10.0 mm (VUU) V-Naht Umf.,Ubear.
 Str 10 n M01 Da= 1220.0 mm s= 10.0 mm ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	56.8	-3.897	29.197	2.780	3.5	5.0	146.4	3
01	S1bn	0.5	56.8	-3.897	29.197	2.780	3.5	5.0	146.4	3
02	S4av	S1a= 5.0		22.129	6.012	18.262	4.6	12.1	368.7	3
02	S4an	S1a= 5.0		22.129	6.012	18.262	4.6	13.2	368.7	4
03	S2bv	S1b= 5.0		-0.276	1.068	0.047	0.1	5.2	146.4	4
03	S2bn	S1b= 5.0		-0.276	1.068	0.047	0.1	5.2	146.4	4
04	S2av	S1a= 5.0		7.879	0.956	1.572	1.0	6.0	146.4	4
04	S2an	S1a= 5.0		7.879	0.956	1.572	1.0	6.0	146.4	4

Pt 119 Str 10 v M01 Da= 1220.0 mm s= 10.0 mm (VUU) V-Naht Umf.,Ubear.
 Str 10 n M01 Da= 1220.0 mm s= 10.0 mm ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	56.8	-4.996	214.679	2.780	25.4	26.9	146.4	18
01	S1bn	0.5	56.8	-4.996	214.679	2.780	25.4	26.9	146.4	18
02	S4av	S1a= 26.9		23.510	19.063	18.262	5.6	36.1	368.7	10
02	S4an	S1a= 26.9		23.510	19.063	18.262	5.6	38.8	368.7	11
03	S2bv	S1b= 26.9		-0.211	8.143	0.047	1.0	27.9	146.4	19
03	S2bn	S1b= 26.9		-0.211	8.143	0.047	1.0	27.9	146.4	19
04	S2av	S1a= 26.9		16.989	1.179	1.572	2.0	29.0	146.4	20
04	S2an	S1a= 26.9		16.989	1.179	1.572	2.0	29.0	146.4	20

Pt 117 Str 10 v M01 Da= 1220.0 mm s= 10.0 mm (BGL) Bogen GLatt
 Str 10 m M01 Da= 1220.0 mm s= 10.0 mm R= 1830.0 mm
 Str 10 n M01 Da= 1220.0 mm s= 10.0 mm ii= 6.3 io= 6.3

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	56.8	-39.011	-3.260	2.780	16.3	17.8	146.4	12
01	S1bm	0.5	56.5	-19.909	-3.481	2.121	8.5	10.0	146.4	7
01	S1bn	0.5	56.5	-3.220	-3.569	1.431	2.1	3.6	146.4	2
02	S4av	S1a= 17.8		63.503	16.394	18.262	37.8	61.9	368.7	17
02	S4am	S1a= 9.9		67.349	18.571	14.841	39.6	55.9	368.7	15
02	S4an	S1a= 3.6		54.337	20.043	11.064	32.7	42.5	368.7	12
03	S2bv	S1b= 17.8		-1.492	-0.148	0.047	0.6	18.5	146.4	13
03	S2bm	S1b= 10.0		-0.776	-0.145	0.018	0.3	10.3	146.4	7
03	S2bn	S1b= 3.6		-0.152	-0.136	-0.009	0.1	3.7	146.4	3

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
04	S2av	S1a= 17.8		0.778	7.732	1.572	3.3	21.2	146.4	14
04	S2am	S1a= 9.9		0.952	6.253	2.702	2.9	12.9	146.4	9
04	S2an	S1a= 3.6		0.902	4.599	3.688	2.5	6.1	146.4	4

Pt 115 Str 10 v M01 Da= 1220.0 mm s= 10.0 mm (BGL) Bogen GLatt
 Str 10 m M01 Da= 1220.0 mm s= 10.0 mm R= 1830.0 mm
 Str 10 n M01 Da= 1220.0 mm s= 10.0 mm ii= 6.3 io= 6.3

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	56.5	-60.822	1.920	1.431	25.3	26.8	146.4	18
01	S1bm	0.5	56.5	-64.819	1.356	1.749	27.0	28.5	146.4	19
01	S1bn	0.5	56.8	-67.213	0.740	1.952	28.0	29.5	146.4	20
02	S4av	S1a= 26.8		81.840	13.286	11.064	46.4	79.4	368.7	22
02	S4am	S1a= 28.5		94.808	9.872	13.309	53.4	88.2	368.7	24
02	S4an	S1a= 29.5		91.227	6.091	14.856	51.4	87.2	368.7	24
03	S2bv	S1b= 26.8		-2.283	0.076	-0.009	1.0	27.8	146.4	19
03	S2bm	S1b= 28.5		-2.446	0.068	0.005	1.0	29.5	146.4	20
03	S2bn	S1b= 29.5		-2.550	0.056	0.017	1.1	30.6	146.4	21
04	S2av	S1a= 26.8		0.669	0.965	3.688	1.6	28.5	146.4	19
04	S2am	S1a= 28.5		0.884	1.075	3.777	1.7	30.2	146.4	21
04	S2an	S1a= 29.5		0.898	1.148	3.839	1.7	31.3	146.4	21

Pt 113 Str 10 v M01 Da= 1220.0 mm s= 10.0 mm (VUU) V-Naht Umf.,Ubear.
 Str 10 n M01 Da= 1220.0 mm s= 10.0 mm ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	57.2	4.293	243.050	1.952	28.8	30.3	146.4	21
01	S1bn	0.5	56.5	4.293	243.050	1.952	28.8	30.3	146.4	21
02	S4av	S1a= 30.3		14.537	142.118	14.856	22.7	59.3	368.7	16
02	S4an	S1a= 30.3		14.537	142.118	14.856	22.7	62.2	368.7	17
03	S2bv	S1b= 30.3		0.126	9.326	0.017	1.1	31.4	146.4	21
03	S2bn	S1b= 30.3		0.126	9.326	0.017	1.1	31.4	146.4	21
04	S2av	S1a= 30.3		3.346	0.893	3.839	0.6	31.0	146.4	21
04	S2an	S1a= 30.3		3.346	0.893	3.839	0.6	31.0	146.4	21

Pt 109 Str 10 v M01 Da= 1220.0 mm s= 10.0 mm (VUU) V-Naht Umf.,Ubear.
 Str 10 n M01 Da= 1220.0 mm s= 10.0 mm ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	57.1	-1.149	99.091	1.952	11.7	13.3	146.4	9
01	S1bn	0.5	56.6	-1.149	99.091	1.952	11.7	13.3	146.4	9
02	S4av	S1a= 13.2		8.237	38.516	14.856	6.6	29.1	368.7	8
02	S4an	S1a= 13.2		8.237	38.516	14.856	6.6	31.1	368.7	8
03	S2bv	S1b= 13.3		-0.034	3.919	0.017	0.5	13.7	146.4	9
03	S2bn	S1b= 13.3		-0.034	3.919	0.017	0.5	13.7	146.4	9
04	S2av	S1a= 13.2		5.123	0.252	3.839	0.8	14.1	146.4	10
04	S2an	S1a= 13.2		5.123	0.252	3.839	0.8	14.1	146.4	10

Pt 107 Str 10 v M01 Da= 1220.0 mm s= 10.0 mm (VUU) V-Naht Umf.,Ubear.
 Str 10 n M01 Da= 1220.0 mm s= 10.0 mm ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	57.0	0.146	75.185	1.952	8.9	10.4	146.4	7
01	S1bn	0.5	56.9	0.146	75.185	1.952	8.9	10.4	146.4	7
02	S4av	S1a= 10.4		128.692	8.796	14.856	20.5	42.2	368.7	11
02	S4an	S1a= 10.4		128.692	8.796	14.855	20.5	42.6	368.7	12
03	S2bv	S1b= 10.4		0.004	2.920	0.017	0.3	10.8	146.4	7
03	S2bn	S1b= 10.4		0.004	2.920	0.017	0.3	10.8	146.4	7
04	S2av	S1a= 10.4		5.042	0.010	3.839	0.8	11.2	146.4	8
04	S2an	S1a= 10.4		5.042	0.010	3.839	0.8	11.3	146.4	8

Pt 105 Str 10 v M01 Da= 1220.0 mm s= 10.0 mm (VUU) V-Naht Umf.,Ubear.
 Str 10 n M01 Da= 1220.0 mm s= 10.0 mm ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	57.3	0.753	40.484	1.952	4.8	6.3	146.4	4
01	S1bn	0.5	57.0	0.753	40.484	1.952	4.8	6.3	146.4	4
02	S4av	S1a= 6.3		59.075	3.832	14.855	9.6	27.6	368.7	7
02	S4an	S1a= 6.3		59.075	3.832	14.855	9.6	26.7	368.7	7
03	S2bv	S1b= 6.3		0.022	1.608	0.017	0.2	6.5	146.4	4
03	S2bn	S1b= 6.3		0.022	1.608	0.017	0.2	6.5	146.4	4
04	S2av	S1a= 6.3		12.677	0.292	3.839	1.6	8.0	146.4	5
04	S2an	S1a= 6.3		12.677	0.292	3.839	1.6	8.0	146.4	5

Pt 103 Str 10 v M01 Da= 1220.0 mm s= 10.0 mm (BGL) Bogen GLatt
 Str 10 m M01 Da= 1220.0 mm s= 10.0 mm R= 1830.0 mm
 Str 10 n M01 Da= 1220.0 mm s= 10.0 mm ii= 6.3 io= 6.3

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	57.1	0.085	-1.281	1.952	1.0	2.5	146.4	2
01	S1bm	0.5	57.2	-0.011	-1.010	1.582	0.8	2.3	146.4	2
01	S1bn	0.5	57.2	-0.008	2.540	1.715	1.3	2.8	146.4	2
02	S4av	S1a= 2.5		185.471	6.916	14.855	103.3	116.5	368.7	32
02	S4am	S1a= 2.3		185.933	11.084	12.485	103.5	116.6	368.7	32
02	S4an	S1a= 2.8		135.427	14.496	9.117	75.7	88.5	368.7	24
03	S2bv	S1b= 2.5		0.002	-0.023	0.017	0.0	2.5	146.4	2
03	S2bm	S1b= 2.3		-0.001	0.003	0.011	0.0	2.3	146.4	2
03	S2bn	S1b= 2.8		-0.000	0.153	0.029	0.1	2.9	146.4	2
04	S2av	S1a= 2.5		8.143	1.794	3.839	3.8	6.4	146.4	4
04	S2am	S1a= 2.3		6.612	1.179	4.212	3.3	5.7	146.4	4
04	S2an	S1a= 2.8		4.527	0.595	4.404	2.6	5.5	146.4	4

Pt 101 Str 10 v M01 Da= 1220.0 mm s= 10.0 mm (VUU) V-Naht Umf.,Ubear.
 Str 10 n M01 Da= 1220.0 mm s= 10.0 mm ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	57.2	-0.024	3.569	1.714	0.5	2.0	146.4	1
01	S1bn	0.5	57.2	-0.024	3.569	1.715	0.5	2.0	146.4	1
02	S4av	S1a= 2.0		122.333	13.722	9.117	19.5	31.5	368.7	9
02	S4an	S1a= 2.0		122.333	13.723	9.116	19.5	31.2	368.7	8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
03	S2bv	S1b=	2.0	-0.001	0.193	0.029	0.0	2.0	146.4	1
03	S2bn	S1b=	2.0	-0.001	0.193	0.029	0.0	2.0	146.4	1
04	S2av	S1a=	2.0	4.128	0.624	4.404	0.7	2.8	146.4	2
04	S2an	S1a=	2.0	4.128	0.624	4.404	0.7	2.8	146.4	2

Pt 99 Str 10 v M01 Da= 1220.0 mm s= 10.0 mm (BGL) Bogen GLatt
 Str 10 m M01 Da= 1220.0 mm s= 10.0 mm R= 1830.0 mm
 Str 10 n M01 Da= 1220.0 mm s= 10.0 mm ii= 6.3 io= 6.3

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	57.2	-0.025	-0.145	1.715	0.7	2.2	146.4	2
01	S1bm	0.5	57.2	-0.000	-6.782	0.871	2.8	4.4	146.4	3
01	S1bn	0.5	57.1	0.101	-16.167	-2.082	6.8	8.3	146.4	6
02	S4av	S1a=	2.2	116.570	1.296	9.116	64.9	76.8	368.7	21
02	S4am	S1a=	4.3	161.185	7.871	7.909	89.6	104.4	368.7	28
02	S4an	S1a=	8.3	156.494	13.909	5.042	87.2	105.8	368.7	29
03	S2bv	S1b=	2.2	-0.001	0.001	0.029	0.0	2.3	146.4	2
03	S2bm	S1b=	4.4	-0.000	-0.231	0.002	0.1	4.5	146.4	3
03	S2bn	S1b=	8.3	0.003	-0.573	-0.102	0.2	8.5	146.4	6
04	S2av	S1a=	2.2	4.579	1.784	4.404	2.7	5.1	146.4	3
04	S2am	S1a=	4.3	6.925	1.247	4.795	3.5	8.0	146.4	5
04	S2an	S1a=	8.3	8.884	0.739	5.025	4.3	12.7	146.4	9

Pt 97 Str 10 v M01 Da= 1220.0 mm s= 10.0 mm (VUU) V-Naht Umf.,Ubear.
 Str 10 n M01 Da= 1220.0 mm s= 10.0 mm ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	57.1	-0.282	33.608	-2.082	4.0	5.5	146.4	4
01	S1bn	0.5	57.1	-0.282	33.608	-2.082	4.0	5.5	146.4	4
02	S4av	S1a=	5.5	117.586	19.587	5.042	18.8	34.6	368.7	9
02	S4an	S1a=	5.5	117.586	19.587	5.042	18.8	33.5	368.7	9
03	S2bv	S1b=	5.5	-0.008	1.232	-0.102	0.1	5.7	146.4	4
03	S2bn	S1b=	5.5	-0.008	1.232	-0.102	0.1	5.7	146.4	4
04	S2av	S1a=	5.5	11.304	1.556	5.025	1.5	7.1	146.4	5
04	S2an	S1a=	5.5	11.304	1.556	5.025	1.5	7.1	146.4	5

Pt 95 Str 10 v M01 Da= 1220.0 mm s= 10.0 mm (VUU) V-Naht Umf.,Ubear.
 Str 10 n M01 Da= 1220.0 mm s= 10.0 mm ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	57.1	-3.045	120.531	-2.082	14.3	15.8	146.4	11
01	S1bn	0.5	57.1	-3.045	120.531	-2.082	14.3	15.8	146.4	11
02	S4av	S1a=	15.8	151.012	3.058	5.042	23.9	48.8	368.7	13
02	S4an	S1a=	15.8	151.012	3.058	5.042	23.9	46.7	368.7	13
03	S2bv	S1b=	15.8	-0.090	4.724	-0.102	0.6	16.4	146.4	11
03	S2bn	S1b=	15.8	-0.090	4.724	-0.102	0.6	16.4	146.4	11
04	S2av	S1a=	15.8	77.084	0.141	5.025	9.1	25.1	146.4	17
04	S2an	S1a=	15.8	77.084	0.141	5.025	9.1	25.1	146.4	17

Pt 93 Str 10 v M01 Da= 1220.0 mm s= 10.0 mm (VUU) V-Naht Umf.,Ubear.
 Str 10 n M01 Da= 1220.0 mm s= 10.0 mm ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	57.1	-0.931	79.807	-2.082	9.5	11.0	146.4	7
01	S1bn	0.5	57.1	-0.931	79.807	-2.082	9.5	11.0	146.4	7
02	S4av	S1a= 11.0		151.815	7.439	5.042	24.0	42.0	368.7	11
02	S4an	S1a= 11.0		151.815	7.439	5.042	24.0	40.4	368.7	11
03	S2bv	S1b= 11.0		-0.027	3.140	-0.102	0.4	11.3	146.4	8
03	S2bn	S1b= 11.0		-0.027	3.140	-0.102	0.4	11.3	146.4	8
04	S2av	S1a= 11.0		11.859	1.509	5.025	1.5	12.6	146.4	9
04	S2an	S1a= 11.0		11.859	1.509	5.025	1.5	12.6	146.4	9

Pt 91 Str 10 v M01 Da= 1220.0 mm s= 10.0 mm (VUU) V-Naht Umf.,Ubear.
 Str 10 n M01 Da= 1220.0 mm s= 10.0 mm ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	57.1	1.027	63.744	-2.082	7.5	9.1	146.4	6
01	S1bn	0.5	57.1	1.027	63.744	-2.082	7.5	9.1	146.4	6
02	S4av	S1a= 9.1		111.988	39.145	5.042	18.7	33.2	368.7	9
02	S4an	S1a= 9.1		111.988	39.145	5.042	18.7	32.0	368.7	9
03	S2bv	S1b= 9.1		0.032	2.372	-0.102	0.3	9.4	146.4	6
03	S2bn	S1b= 9.1		0.032	2.372	-0.102	0.3	9.4	146.4	6
04	S2av	S1a= 9.1		13.223	7.116	5.025	1.9	11.1	146.4	8
04	S2an	S1a= 9.1		13.223	7.116	5.025	1.9	11.1	146.4	8

Pt 89 Str 10 v M01 Da= 1220.0 mm s= 10.0 mm (BGL) Bogen GLatt
 Str 10 m M01 Da= 1220.0 mm s= 10.0 mm R= 1830.0 mm
 Str 10 n M01 Da= 1220.0 mm s= 10.0 mm ii= 6.3 io= 6.3

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	57.1	-1.442	-24.748	-2.082	10.3	11.9	146.4	8
01	S1bm	0.5	57.1	-1.342	1.164	-6.541	2.8	4.3	146.4	3
01	S1bn	0.5	57.0	-1.151	19.732	-2.151	8.3	9.8	146.4	7
02	S4av	S1a= 11.8		175.008	22.280	5.042	97.9	113.9	368.7	31
02	S4am	S1a= 4.3		203.502	8.310	1.043	113.0	121.9	368.7	33
02	S4an	S1a= 9.8		183.471	6.924	1.319	101.8	115.9	368.7	31
03	S2bv	S1b= 11.9		-0.046	-0.898	-0.102	0.4	12.2	146.4	8
03	S2bm	S1b= 4.3		-0.041	0.076	-0.256	0.1	4.5	146.4	3
03	S2bn	S1b= 9.8		-0.035	0.760	-0.081	0.3	10.1	146.4	7
04	S2av	S1a= 11.8		13.629	6.792	5.025	6.7	18.7	146.4	13
04	S2am	S1a= 4.3		14.128	4.184	7.203	6.8	11.3	146.4	8
04	S2an	S1a= 9.8		15.453	0.942	8.221	7.3	17.2	146.4	12

Pt 87 Str 10 v M01 Da= 1220.0 mm s= 10.0 mm (VUU) V-Naht Umf.,Ubear.
 Str 10 n M01 Da= 1220.0 mm s= 10.0 mm ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	57.4	0.271	41.126	-2.151	4.9	6.4	146.4	4
01	S1bn	0.5	56.9	0.269	41.126	-2.151	4.9	6.4	146.4	4
02	S4av	S1a= 6.4		91.653	97.565	1.320	21.1	31.8	368.7	9
02	S4an	S1a= 6.4		91.651	97.565	1.403	21.1	30.8	368.7	8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
03	S2bv	S1b=	6.4	0.007	1.875	-0.081	0.2	6.6	146.4	5
03	S2bn	S1b=	6.4	0.007	1.875	-0.081	0.2	6.6	146.4	5
04	S2av	S1a=	6.4	23.510	0.803	8.220	2.9	9.4	146.4	6
04	S2an	S1a=	6.4	23.502	0.803	8.241	2.9	9.4	146.4	6

Pt 85 Str 10 v M01 Da= 1220.0 mm s= 10.0 mm (BGL) Bogen GLatt
 Str 10 m M01 Da= 1220.0 mm s= 10.0 mm R= 1830.0 mm
 Str 10 n M01 Da= 1220.0 mm s= 10.0 mm ii= 6.3 io= 6.3

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	57.2	-0.792	-13.220	-2.151	5.6	7.1	146.4	5
01	S1bm	0.5	57.2	-0.766	5.867	-3.847	2.9	4.5	146.4	3
01	S1bn	0.5	57.1	-0.505	31.227	3.299	13.1	14.6	146.4	10
02	S4av	S1a=	7.1	199.560	9.700	1.402	110.8	121.2	368.7	33
02	S4am	S1a=	4.4	199.030	26.277	5.755	111.4	119.1	368.7	32
02	S4an	S1a=	14.6	163.751	38.854	18.710	93.9	111.3	368.7	30
03	S2bv	S1b=	7.1	-0.027	-0.534	-0.081	0.2	7.3	146.4	5
03	S2bm	S1b=	4.5	-0.026	0.167	-0.163	0.1	4.6	146.4	3
03	S2bn	S1b=	14.6	-0.017	1.123	0.085	0.5	15.1	146.4	10
04	S2av	S1a=	7.1	22.036	7.925	8.241	10.3	17.5	146.4	12
04	S2am	S1a=	4.4	20.345	5.387	10.889	9.9	14.4	146.4	10
04	S2an	S1a=	14.6	17.636	2.033	12.364	9.0	23.6	146.4	16

Pt 83 Str 10 v M01 Da= 1220.0 mm s= 10.0 mm (VUU) V-Naht Umf.,Ubear.
 Str 10 n M01 Da= 1220.0 mm s= 10.0 mm ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	57.1	-0.444	86.501	3.299	10.2	11.8	146.4	8
01	S1bn	0.5	57.1	-0.444	86.501	3.299	10.2	11.8	146.4	8
02	S4av	S1a=	11.7	80.880	67.092	18.710	16.8	31.4	368.7	9
02	S4an	S1a=	11.7	80.880	67.092	18.710	16.8	31.2	368.7	8
03	S2bv	S1b=	11.8	-0.016	3.209	0.085	0.4	12.2	146.4	8
03	S2bn	S1b=	11.8	-0.016	3.209	0.085	0.4	12.2	146.4	8
04	S2av	S1a=	11.7	12.395	3.959	12.364	2.1	13.9	146.4	9
04	S2an	S1a=	11.7	12.395	3.959	12.364	2.1	13.9	146.4	9

Pt 81 Str 10 v M01 Da= 1220.0 mm s= 10.0 mm (BGL) Bogen GLatt
 Str 10 m M01 Da= 1220.0 mm s= 10.0 mm R= 1830.0 mm
 Str 10 n M01 Da= 1220.0 mm s= 10.0 mm ii= 6.3 io= 6.3

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	57.1	2.687	-0.002	3.299	1.8	3.3	146.4	2
01	S1bm	0.5	56.5	19.850	-0.842	3.172	8.4	9.9	146.4	7
01	S1bn	0.5	56.5	31.849	-1.607	2.804	13.3	14.8	146.4	10
02	S4av	S1a=	3.3	24.303	72.399	18.710	43.6	49.4	368.7	13
02	S4am	S1a=	9.9	43.198	61.215	38.795	46.8	59.5	368.7	16
02	S4an	S1a=	14.8	44.683	44.621	54.704	46.3	64.0	368.7	17
03	S2bv	S1b=	3.3	0.028	-0.003	0.085	0.0	3.3	146.4	2
03	S2bm	S1b=	9.9	0.625	-0.024	0.081	0.3	10.2	146.4	7
03	S2bn	S1b=	14.8	1.027	-0.043	0.071	0.4	15.3	146.4	10

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
04	S2av	S1a= 3.3	3.3	3.042	2.714	12.364	5.4	8.7	146.4	6
04	S2bm	S1b= 9.9	9.9	2.716	3.086	11.490	5.1	15.0	146.4	10
04	S2bn	S1b= 14.8	14.8	2.305	3.037	10.570	4.7	19.5	146.4	13

Pt 79 Str 10 v M01 Da= 1220.0 mm s= 10.0 mm (BGL) Bogen GLatt
 Str 10 m M01 Da= 1220.0 mm s= 10.0 mm R= 1830.0 mm
 Str 10 n M01 Da= 1220.0 mm s= 10.0 mm ii= 6.3 io= 6.3

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1av	0.5	76.1	-11.211	0.678	2.804	4.8	6.8	146.4	5
01	S1am	0.5	69.3	7.243	-0.306	2.860	3.2	5.1	146.4	3
01	S1bn	0.5	57.1	31.683	-1.263	2.624	13.2	14.8	146.4	10
02	S4av	S1a= 6.8	6.8	7.542	26.818	54.704	34.0	43.7	368.7	12
02	S4am	S1a= 5.1	5.1	6.057	39.232	44.775	33.2	41.1	368.7	11
02	S4an	S1a= 14.7	14.7	12.838	48.178	31.636	32.7	50.0	368.7	14
03	S2av	S1a= 6.8	6.8	-0.365	0.015	0.071	0.2	7.0	146.4	5
03	S2am	S1a= 5.1	5.1	0.230	-0.011	0.071	0.1	5.2	146.4	4
03	S2bn	S1b= 14.8	14.8	1.019	-0.035	0.064	0.4	15.2	146.4	10
04	S2av	S1a= 6.8	6.8	0.758	25.251	10.570	11.4	18.2	146.4	12
04	S2am	S1a= 5.1	5.1	0.926	31.863	2.006	13.3	18.4	146.4	13
04	S2bn	S1b= 14.8	14.8	1.210	35.837	8.194	15.3	30.1	146.4	21

Pt 77 Str 10 v M01 Da= 1220.0 mm s= 10.0 mm (VUU) V-Naht Umf.,Ubear.
 Str 10 n M01 Da= 1220.0 mm s= 10.0 mm ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	57.1	1.263	31.683	2.624	3.8	5.3	146.4	4
01	S1bn	0.5	57.1	1.263	31.683	2.624	3.8	5.3	146.4	4
02	S4av	S1a= 5.3	5.3	48.178	12.838	31.636	9.3	17.1	368.7	5
02	S4an	S1a= 5.3	5.3	48.178	12.838	31.636	9.3	16.0	368.7	4
03	S2bv	S1b= 5.3	5.3	0.035	1.019	0.064	0.1	5.4	146.4	4
03	S2bn	S1b= 5.3	5.3	0.035	1.019	0.064	0.1	5.4	146.4	4
04	S2bv	S1b= 5.3	5.3	35.837	1.210	8.194	4.4	9.6	146.4	7
04	S2bn	S1b= 5.3	5.3	35.837	1.210	8.194	4.4	9.6	146.4	7

Pt 75 Str 10 v M01 Da= 1220.0 mm s= 10.0 mm (VUU) V-Naht Umf.,Ubear.
 Str 10 n M01 Da= 1220.0 mm s= 10.0 mm ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	57.1	1.099	45.156	2.624	5.4	6.9	146.4	5
01	S1bn	0.5	57.1	1.099	45.156	2.624	5.4	6.9	146.4	5
02	S4av	S1a= 6.9	6.9	46.136	1.513	1.059	7.3	15.3	368.7	4
02	S4an	S1a= 6.9	6.9	31.816	24.130	30.576	7.9	15.1	368.7	4
03	S2bv	S1b= 6.9	6.9	0.032	1.740	0.064	0.2	7.1	146.4	5
03	S2bn	S1b= 6.9	6.9	0.032	1.740	0.064	0.2	7.1	146.4	5
04	S2bv	S1b= 6.9	6.9	13.278	6.174	8.194	2.0	8.9	146.4	6
04	S2bn	S1b= 6.9	6.9	13.278	6.174	8.194	2.0	8.9	146.4	6

Pt 73 Str 10 v M01 Da= 1220.0 mm s= 10.0 mm (BGL) Bogen GLatt
 Str 10 m M01 Da= 1220.0 mm s= 10.0 mm R= 1830.0 mm
 Str 10 n M01 Da= 1220.0 mm s= 10.0 mm ii= 6.3 io= 6.3

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	57.1	-1.050	-1.989	2.624	1.4	3.0	146.4	2
01	S1bm	0.5	57.0	-0.578	3.310	5.125	2.5	4.1	146.4	3
01	S1bn	0.5	56.9	0.078	-20.865	-0.192	8.7	10.2	146.4	7
02	S4av	S1a= 2.9		53.759	7.236	31.636	34.8	38.8	368.7	11
02	S4am	S1a= 4.0		88.659	12.767	23.350	51.3	56.9	368.7	15
02	S4an	S1a= 10.2		62.211	10.819	13.581	35.8	47.1	368.7	13
03	S2bv	S1b= 3.0		-0.032	-0.073	0.064	0.0	3.0	146.4	2
03	S2bm	S1b= 4.1		-0.018	0.144	0.170	0.1	4.2	146.4	3
03	S2bn	S1b= 10.2		0.002	-0.799	-0.025	0.3	10.5	146.4	7
04	S2bv	S1b= 3.0		5.193	1.635	8.194	4.1	7.1	146.4	5
04	S2am	S1a= 4.0		1.964	3.145	6.215	3.0	7.1	146.4	5
04	S2an	S1a= 10.2		3.245	2.829	3.742	2.4	12.6	146.4	9

Pt 71 Str 10 v M01 Da= 1220.0 mm s= 10.0 mm (VUU) V-Naht Umf.,Ubear.
 Str 10 n M01 Da= 1220.0 mm s= 10.0 mm ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	56.9	-0.253	29.345	-0.192	3.5	5.0	146.4	3
01	S1bn	0.5	56.5	-0.253	29.345	-0.192	3.5	5.0	146.4	3
02	S4av	S1a= 5.0		50.190	7.235	13.581	8.3	14.4	368.7	4
02	S4an	S1a= 5.0		50.190	7.235	13.581	8.3	15.6	368.7	4
03	S2bv	S1b= 5.0		-0.007	1.134	-0.025	0.1	5.1	146.4	4
03	S2bn	S1b= 5.0		-0.007	1.134	-0.025	0.1	5.1	146.4	4
04	S2av	S1a= 5.0		3.096	1.909	3.742	0.6	5.7	146.4	4
04	S2an	S1a= 5.0		3.096	1.909	3.742	0.6	5.7	146.4	4

Pt 69 Str 10 v M01 Da= 1220.0 mm s= 10.0 mm (VUU) V-Naht Umf.,Ubear.
 Str 10 n M01 Da= 1220.0 mm s= 10.0 mm ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	57.5	-4.964	97.342	-0.192	11.5	13.1	146.4	9
01	S1bn	0.5	56.5	-4.964	97.342	-0.192	11.5	13.1	146.4	9
02	S4av	S1a= 13.0		91.882	1.698	13.581	14.7	30.0	368.7	8
02	S4an	S1a= 13.0		91.882	1.698	13.581	14.7	32.0	368.7	9
03	S2bv	S1b= 13.1		-0.153	3.805	-0.025	0.5	13.5	146.4	9
03	S2bn	S1b= 13.1		-0.153	3.805	-0.025	0.5	13.5	146.4	9
04	S2av	S1a= 13.0		29.018	0.386	3.742	3.5	16.6	146.4	11
04	S2an	S1a= 13.0		29.018	0.386	3.742	3.5	16.6	146.4	11

Pt 67 Str 10 v M01 Da= 1220.0 mm s= 10.0 mm (VUU) V-Naht Umf.,Ubear.
 Str 10 n M01 Da= 1220.0 mm s= 10.0 mm ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	57.3	-1.572	83.158	-0.192	9.8	11.4	146.4	8
01	S1bn	0.5	56.5	-1.572	83.158	-0.192	9.8	11.4	146.4	8
02	S4av	S1a= 11.4		70.532	0.065	13.581	11.3	27.0	368.7	7
02	S4an	S1a= 11.3		70.532	0.065	13.581	11.3	28.8	368.7	8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
03	S2bv	S1b= 11.4	11.4	-0.049	3.248	-0.025	0.4	11.8	146.4	8
03	S2bn	S1b= 11.4	11.4	-0.049	3.248	-0.025	0.4	11.8	146.4	8
04	S2av	S1a= 11.4	11.4	5.199	0.158	3.742	0.8	12.2	146.4	8
04	S2an	S1a= 11.3	11.3	5.199	0.158	3.742	0.8	12.2	146.4	8

Pt 65 Str 10 v M01 Da= 1220.0 mm s= 10.0 mm (VUU) V-Naht Umf.,Ubear.
 Str 10 n M01 Da= 1220.0 mm s= 10.0 mm ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	57.3	1.779	72.192	-0.192	8.5	10.1	146.4	7
01	S1bn	0.5	56.5	1.779	72.192	-0.192	8.5	10.1	146.4	7
02	S4av	S1a= 10.1	10.1	16.494	1.282	13.581	3.4	19.6	368.7	5
02	S4an	S1a= 10.0	10.0	16.494	1.282	13.581	3.4	21.3	368.7	6
03	S2bv	S1b= 10.1	10.1	0.055	2.820	-0.025	0.3	10.4	146.4	7
03	S2bn	S1b= 10.1	10.1	0.055	2.820	-0.025	0.3	10.4	146.4	7
04	S2av	S1a= 10.1	10.1	7.285	0.023	3.742	1.0	11.1	146.4	8
04	S2an	S1a= 10.0	10.0	7.285	0.023	3.742	1.0	11.1	146.4	8

Pt 61 Str 10 v M01 Da= 1220.0 mm s= 10.0 mm (VUU) V-Naht Umf.,Ubear.
 ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	57.2	-0.751	51.188	-0.192	6.1	7.6	146.4	5
02	S4av	S1a= 7.6	7.6	17.434	6.947	13.581	3.7	19.1	368.7	5
03	S2bv	S1b= 7.6	7.6	-0.023	1.999	-0.025	0.2	7.8	146.4	5
04	S2av	S1a= 7.6	7.6	0.945	0.041	3.742	0.5	8.1	146.4	6

Pt 57 Str 23 n M01 Da= 1220.0 mm s= 6.0 mm (TTV) T-Stck Verstaerkt
 Str 24 n M01 Da= 1220.0 mm s= 6.0 mm tH= 12.0 mm
 Str 11 n M01 Da= 406.4 mm s= 3.0 mm ii= 9.9 io= 9.9

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bn	0.5	57.3	-32.831	-6.342	-1.442	36.1	38.6	146.4	26
01	S1bn	0.5	57.3	32.805	6.290	0.000	36.0	38.6	146.4	26
01	S1an	0.5	14.6	0.026	1.442	0.051	14.0	17.9	146.4	12
02	S4an	S1a= 38.6	38.6	20.319	5.513	0.016	30.3	71.3	368.7	19
02	S4bn	S1b= 38.6	38.6	0.000	0.000	0.000	0.0	38.6	368.7	10
02	S4an	S1a= 17.9	17.9	20.319	0.016	5.513	272.9	290.9	368.7	79
03	S2bn	S1b= 38.6	38.6	-0.947	-0.182	-0.001	1.0	39.7	146.4	27
03	S2bn	S1b= 38.6	38.6	0.946	0.181	0.000	1.0	39.6	146.4	27
03	S2an	S1a= 17.9	17.9	0.001	0.001	0.000	0.0	17.9	146.4	12
04	S2bn	S1b= 38.6	38.6	0.473	0.818	0.162	1.0	39.7	146.4	27
04	S2bn	S1b= 38.6	38.6	0.188	0.981	0.000	1.1	39.7	146.4	27
04	S2an	S1a= 17.9	17.9	0.445	0.162	0.184	4.9	22.8	146.4	16

Pt 253 Str 11 v M01 Da= 406.4 mm s= 3.0 mm (VUU) V-Naht Umf.,Ubear.
 Str 11 n M01 Da= 406.4 mm s= 3.0 mm ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1av	0.5	14.4	-0.014	-0.294	0.051	1.1	4.8	146.4	3
01	S1an	0.5	14.5	-0.017	-0.294	0.050	1.1	4.9	146.4	3

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
02	S4av	S1a= 4.8	4.8	13.347	0.003	5.513	68.3	73.2	368.7	20
02	S4an	S1a= 4.9	4.9	13.647	0.003	4.723	68.3	73.2	368.7	20
03	S2av	S1a= 4.8	4.8	-0.000	-0.001	0.000	0.0	4.8	146.4	3
03	S2an	S1a= 4.9	4.9	-0.001	-0.001	0.000	0.0	4.9	146.4	3
04	S2av	S1a= 4.8	4.8	0.186	0.001	0.184	0.9	5.8	146.4	4
04	S2an	S1a= 4.9	4.9	0.189	0.001	0.181	0.9	5.8	146.4	4

Pt 145 Str 11 v M01 Da= 406.4 mm s= 3.0 mm (VUU) V-Naht Umf.,Ubear.
 ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1av	0.5	12.9	-0.011	-0.767	0.050	2.7	6.1	146.4	4
02	S4av	S1a= 6.1	6.1	10.199	0.009	4.723	53.2	59.3	368.7	16
03	S2av	S1a= 6.1	6.1	-0.000	-0.001	0.000	0.0	6.1	146.4	4
04	S2av	S1a= 6.1	6.1	0.091	0.050	0.181	0.7	6.9	146.4	5

Pt 143 Str 11 n M01 Da= 406.4 mm s= 3.0 mm (VUU) V-Naht Umf.,Ubear.
 ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1an	0.5	9.5	-0.504	0.012	0.048	1.8	4.3	146.4	3
02	S4an	S1a= 4.3	4.3	0.006	7.033	3.351	36.8	41.2	368.7	11
03	S2an	S1a= 4.3	4.3	-0.000	0.000	0.000	0.0	4.3	146.4	3
04	S2an	S1a= 4.3	4.3	0.070	0.027	0.178	0.7	5.0	146.4	3

Pt 201 Str 11 v M01 Da= 406.4 mm s= 3.0 mm (VUU) V-Naht Umf.,Ubear.
 ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1av	0.5	7.7	-0.157	0.004	0.048	0.6	2.6	146.4	2
02	S4av	S1a= 2.6	2.6	0.002	2.161	3.351	18.9	21.5	368.7	6
03	S2av	S1a= 2.6	2.6	-0.000	0.000	0.000	0.0	2.6	146.4	2
04	S2av	S1a= 2.6	2.6	0.037	0.007	0.178	0.6	3.2	146.4	2

Pt 197 Str 11 n M01 Da= 406.4 mm s= 3.0 mm (VUU) V-Naht Umf.,Ubear.
 ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bn	0.5	6.3	0.152	-0.004	0.048	0.6	2.3	146.4	2
02	S4an	S1a= 2.2	2.2	0.002	2.187	3.351	18.9	21.2	368.7	6
03	S2bn	S1b= 2.3	2.3	0.000	-0.000	0.000	0.0	2.3	146.4	2
04	S2bn	S1b= 2.3	2.3	0.050	0.020	0.178	0.7	2.9	146.4	2

Pt 141 Str 11 v M01 Da= 406.4 mm s= 3.0 mm (VUU) V-Naht Umf.,Ubear.
 ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	6.3	0.183	-0.004	0.048	0.7	2.4	146.4	2
02	S4av	S1a= 2.3	2.3	0.002	2.623	3.351	20.1	22.5	368.7	6
03	S2bv	S1b= 2.4	2.4	0.000	-0.000	0.000	0.0	2.4	146.4	2

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
04	S2bv	S1b= 2.4		0.061	0.026	0.178	0.7	3.0	146.4	2

Pt 53 Str 23 v M01 Da= 1220.0 mm s= 6.0 mm (TTV) T-Stck Verstaerkt
 Str 22 v M01 Da= 1220.0 mm s= 6.0 mm tH= 12.0 mm
 Str 13 n M01 Da= 406.4 mm s= 3.0 mm ii= 9.9 io= 9.9

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	57.3	27.227	-5.482	1.442	30.0	32.5	146.4	22
01	S1bv	0.5	57.3	-27.277	5.487	-3.077	30.2	32.7	146.4	22
01	S1an	0.5	12.9	-0.050	-1.635	0.005	15.9	19.3	146.4	13
02	S4av	S1a= 32.5		9.332	0.787	0.016	13.5	50.0	368.7	14
02	S4av	S1a= 32.7		9.686	2.375	0.003	14.3	53.6	368.7	15
02	S4an	S1a= 19.3		19.018	0.013	3.162	249.9	269.3	368.7	73
03	S2bv	S1b= 32.5		1.131	-0.244	0.001	1.2	33.8	146.4	23
03	S2bv	S1b= 32.7		-1.132	0.244	-0.002	1.2	34.0	146.4	23
03	S2an	S1a= 19.3		-0.001	-0.001	0.000	0.0	19.3	146.4	13
04	S2bv	S1b= 32.5		0.274	0.883	0.162	1.0	33.6	146.4	23
04	S2bv	S1b= 32.7		0.287	0.893	0.450	1.1	33.9	146.4	23
04	S2an	S1a= 19.3		0.409	0.288	0.041	4.9	24.2	146.4	17

Pt 255 Str 13 v M01 Da= 406.4 mm s= 3.0 mm (BGL) Bogen GLatt
 Str 13 m M01 Da= 406.4 mm s= 3.0 mm R= 610.0 mm
 Str 13 n M01 Da= 406.4 mm s= 3.0 mm ii= 6.7 io= 6.7

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1av	0.5	12.4	0.403	-0.030	0.005	5.3	8.6	146.4	6
01	S1am	0.5	12.5	0.504	-0.029	0.002	6.7	10.0	146.4	7
01	S1an	0.5	12.4	0.519	-0.027	-0.001	6.8	10.1	146.4	7
02	S4av	S1a= 8.6		0.023	11.132	3.162	203.5	212.2	368.7	58
02	S4am	S1a= 10.0		0.024	10.827	1.994	193.6	203.6	368.7	55
02	S4an	S1a= 10.1		0.023	10.400	0.865	183.5	193.7	368.7	53
03	S2av	S1a= 8.6		0.001	-0.000	0.000	0.0	8.6	146.4	6
03	S2am	S1a= 10.0		0.001	-0.000	0.000	0.0	10.0	146.4	7
03	S2an	S1a= 10.1		0.001	-0.000	0.000	0.0	10.1	146.4	7
04	S2av	S1a= 8.6		0.078	0.145	0.041	2.2	10.9	146.4	7
04	S2am	S1a= 10.0		0.066	0.133	0.027	2.0	11.9	146.4	8
04	S2an	S1a= 10.1		0.055	0.120	0.015	1.7	11.9	146.4	8

Pt 151 Str 13 v M01 Da= 406.4 mm s= 7.1 mm (VUU) V-Naht Umf.,Ubear.
 ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1av	0.5	11.9	-0.444	0.023	-0.001	0.7	2.0	146.4	1
02	S4av	S1a= 2.0		0.020	8.900	0.865	18.4	20.5	368.7	6
03	S2av	S1a= 2.0		-0.001	0.000	0.000	0.0	2.0	146.4	1
04	S2av	S1a= 2.0		0.029	0.085	0.015	0.1	2.2	146.4	1

Pt 149 Str 13 n M01 Da= 406.4 mm s= 7.1 mm (VUU) V-Naht Umf.,Ubear.
 ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1an	0.5	8.8	-0.360	0.019	-0.001	0.6	1.5	146.4	1

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
02	S4an	S1a= 1.5	1.5	0.016	7.213	0.865	15.0	16.5	368.7	4
03	S2an	S1a= 1.5	1.5	-0.001	0.000	0.000	0.0	1.5	146.4	1
04	S2an	S1a= 1.5	1.5	0.008	0.052	0.015	0.1	1.6	146.4	1

Pt 207 Str 13 v M01 Da= 406.4 mm s= 3.0 mm (VUU) V-Naht Umf.,Ubear.
 ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1av	0.5	7.7	-0.112	0.006	-0.001	0.4	2.4	146.4	2
02	S4av	S1a= 2.4	2.4	0.005	2.222	0.865	11.3	13.7	368.7	4
03	S2av	S1a= 2.4	2.4	-0.000	0.000	0.000	0.0	2.4	146.4	2
04	S2av	S1a= 2.4	2.4	0.013	0.001	0.015	0.1	2.5	146.4	2

Pt 203 Str 13 n M01 Da= 406.4 mm s= 3.0 mm (VUU) V-Naht Umf.,Ubear.
 ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bn	0.5	6.3	0.109	-0.006	-0.001	0.4	2.1	146.4	1
02	S4an	S1a= 2.0	2.0	0.005	2.234	0.865	11.3	13.4	368.7	4
03	S2bn	S1b= 2.1	2.1	0.000	-0.000	0.000	0.0	2.1	146.4	1
04	S2bn	S1b= 2.1	2.1	0.026	0.012	0.015	0.1	2.2	146.4	1

Pt 147 Str 13 v M01 Da= 406.4 mm s= 3.0 mm (VUU) V-Naht Umf.,Ubear.
 ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	6.3	0.131	-0.007	-0.001	0.5	2.2	146.4	1
02	S4av	S1a= 2.1	2.1	0.006	2.680	0.865	13.3	15.5	368.7	4
03	S2bv	S1b= 2.2	2.2	0.000	-0.000	0.000	0.0	2.2	146.4	1
04	S2bv	S1b= 2.2	2.2	0.033	0.016	0.015	0.1	2.3	146.4	2

Pt 23 Str 20 v M01 Da= 1220.0 mm s= 6.0 mm (TTV) T-Stck Verstaerkt
 Str 20 n M01 Da= 1220.0 mm s= 6.0 mm tH= 12.0 mm
 Str 18 n M01 Da= 406.4 mm s= 3.0 mm ii= 9.9 io= 9.9

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1av	0.5	58.9	20.569	-3.080	-15.205	27.8	30.4	146.4	21
01	S1bn	0.5	57.5	22.589	-3.395	-13.977	28.9	31.4	146.4	21
01	S1bn	0.5	8.9	-2.020	-1.228	0.314	23.2	25.7	146.4	18
02	S4av	S1a= 30.4	30.4	23.181	-10.376	0.588	36.5	82.3	368.7	22
02	S4an	S1a= 31.4	31.4	26.214	4.621	7.753	39.9	98.2	368.7	27
02	S4an	S1a= 25.5	25.5	12.896	0.139	1.745	168.7	194.6	368.7	53
03	S2av	S1a= 30.4	30.4	0.788	-0.172	-0.067	0.9	31.2	146.4	21
03	S2bn	S1b= 31.4	31.4	0.948	-0.185	-0.006	1.0	32.5	146.4	22
03	S2bn	S1b= 25.7	25.7	-0.160	-0.061	0.013	1.7	27.4	146.4	19
04	S2av	S1a= 30.4	30.4	0.533	2.325	3.115	4.2	34.7	146.4	24
04	S2an	S1a= 31.4	31.4	0.500	2.144	2.053	3.2	34.8	146.4	24
04	S2bn	S1b= 25.7	25.7	0.051	1.063	0.182	10.5	36.2	146.4	25

Pt 353 Str 18 v M01 Da= 406.4 mm s= 3.0 mm (BGL) Bogen GLatt
 Str 18 m M01 Da= 406.4 mm s= 3.0 mm R= 610.0 mm
 Str 18 n M01 Da= 406.4 mm s= 3.0 mm ii= 6.7 io= 6.7

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1av	0.5	8.5	0.260	-0.768	0.314	11.5	13.7	146.4	9
01	S1am	0.5	8.5	0.335	-0.705	0.236	10.8	13.0	146.4	9
01	S1an	0.5	8.5	0.349	-0.634	0.165	9.8	12.0	146.4	8
02	S4av	S1a= 13.7		0.180	6.829	1.745	130.2	144.3	368.7	39
02	S4am	S1a= 13.0		0.179	6.531	1.034	122.2	135.5	368.7	37
02	S4an	S1a= 12.0		0.169	6.159	0.360	114.0	126.4	368.7	34
03	S2av	S1a= 13.7		-0.002	-0.056	0.013	0.8	14.5	146.4	10
03	S2am	S1a= 13.0		0.001	-0.049	0.007	0.7	13.7	146.4	9
03	S2an	S1a= 12.0		0.002	-0.042	0.002	0.6	12.7	146.4	9
04	S2av	S1a= 13.7		0.457	0.060	0.182	6.5	20.3	146.4	14
04	S2am	S1a= 13.0		0.415	0.059	0.183	6.0	19.1	146.4	13
04	S2an	S1a= 12.0		0.374	0.064	0.183	5.6	17.6	146.4	12

Pt 355 Str 18 v M01 Da= 406.4 mm s= 7.1 mm (VUU) V-Naht Umf.,Ubear.
 ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1av	0.5	8.0	-0.312	0.396	0.165	0.8	1.7	146.4	1
02	S4av	S1a= 1.7		0.131	5.006	0.360	10.3	12.2	368.7	3
03	S2av	S1a= 1.7		-0.001	0.022	0.002	0.0	1.8	146.4	1
04	S2av	S1a= 1.7		0.271	0.067	0.183	0.5	2.2	146.4	2

Pt 357 Str 18 n M01 Da= 406.4 mm s= 7.1 mm (VUU) V-Naht Umf.,Ubear.
 ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bn	0.5	6.0	-0.127	-0.270	0.165	0.5	1.2	146.4	1
02	S4an	S1a= 1.2		3.707	0.088	0.369	7.7	9.0	368.7	2
03	S2bn	S1b= 1.2		0.000	-0.001	0.002	0.0	1.2	146.4	1
04	S2bn	S1b= 1.2		0.065	0.163	0.183	0.4	1.6	146.4	1

Pt 359 Str 18 v M01 Da= 406.4 mm s= 3.0 mm (BGL) Bogen GLatt
 Str 18 m M01 Da= 406.4 mm s= 3.0 mm R= 610.0 mm
 Str 18 n M01 Da= 406.4 mm s= 3.0 mm ii= 6.7 io= 6.7

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	6.3	0.380	-0.194	0.165	6.0	7.7	146.4	5
01	S1bm	0.5	6.3	0.364	-0.162	0.018	5.3	7.0	146.4	5
01	S1bn	0.5	6.3	-0.621	-0.034	-0.063	8.3	9.9	146.4	7
02	S4av	S1a= 7.7		1.248	0.009	0.369	24.1	32.1	368.7	9
02	S4am	S1a= 6.9		1.490	0.173	0.294	28.1	36.6	368.7	10
02	S4an	S1a= 9.9		2.175	0.235	0.125	40.5	52.2	368.7	14
03	S2av	S1a= 7.7		0.043	-0.001	0.002	0.6	8.3	146.4	6
03	S2am	S1a= 6.9		0.039	-0.002	0.001	0.5	7.5	146.4	5
03	S2bn	S1b= 9.9		-0.073	-0.002	0.000	1.0	10.9	146.4	7
04	S2bv	S1b= 7.7		0.040	0.023	0.183	2.5	10.2	146.4	7
04	S2am	S1a= 6.9		0.015	0.070	0.224	3.1	10.1	146.4	7
04	S2an	S1a= 9.9		0.039	0.028	0.268	3.6	13.6	146.4	9

Pt 189 Str 18 v M01 Da= 406.4 mm s= 3.0 mm (VUU) V-Naht Umf.,Ubear.
 ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	6.3	-1.069	5.576	-0.063	20.1	21.8	146.4	15
02	S4av	S1a= 21.8		0.288	5.363	0.155	25.4	48.6	368.7	13
03	S2bv	S1b= 21.8		-0.008	0.639	0.000	2.3	24.1	146.4	16
04	S2av	S1a= 21.8		1.305	0.050	0.268	4.7	26.6	146.4	18

Pt 1 Str 20 n M01 Da= 1220.0 mm s= 6.0 mm (VUU) V-Naht Umf.,Ubear.
 ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1an	0.5	95.4	-3.477	6.233	-13.145	2.9	7.1	146.4	5
02	S4an	S1a= 7.1		4.501	735.862	2.060	191.7	206.7	368.7	56
03	S2an	S1a= 7.1		-0.016	-0.000	-0.058	0.0	7.1	146.4	5
04	S2an	S1a= 7.1		0.874	3.862	2.825	1.0	8.1	146.4	6

Pt 5 Str 20 v M01 Da= 1220.0 mm s= 10.0 mm (BGL) Bogen GLatt
 Str 20 m M01 Da= 1220.0 mm s= 10.0 mm R= 1320.0 mm
 Str 20 n M01 Da= 1220.0 mm s= 10.0 mm ii= 7.9 io= 7.9

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1av	0.5	88.7	-6.970	-6.483	-13.145	8.5	10.8	146.4	7
01	S1am	0.5	70.1	0.257	-1.457	-16.434	8.6	10.5	146.4	7
01	S1an	0.5	58.2	8.854	4.423	-15.205	9.5	11.0	146.4	8
02	S4av	S1a= 10.8		438.752	3.199	2.060	305.3	320.9	368.7	87
02	S4am	S1a= 10.5		100.461	1.049	0.300	69.9	95.9	368.7	26
02	S4an	S1a= 11.0		183.263	1.716	0.577	127.5	155.7	368.7	42
03	S2av	S1a= 10.8		-0.055	-0.029	-0.058	0.0	10.9	146.4	7
03	S2am	S1a= 10.5		-0.041	-0.006	-0.072	0.0	10.5	146.4	7
03	S2an	S1a= 11.0		0.220	0.020	-0.067	0.1	11.1	146.4	8
04	S2av	S1a= 10.8		2.204	0.352	2.825	1.9	12.7	146.4	9
04	S2am	S1a= 10.5		0.537	0.325	3.150	1.7	12.2	146.4	8
04	S2an	S1a= 11.0		0.785	0.515	3.115	1.7	12.8	146.4	9

Pt 7 Str 20 v M01 Da= 1220.0 mm s= 10.0 mm (WSU) WandSpr. Ubear.
 Str 20 n M01 Da= 1220.0 mm s= 6.0 mm ii= 1.9 io= 1.9

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1av	0.5	58.2	4.423	-8.854	-15.205	2.3	3.8	146.4	3
01	S1an	0.5	58.9	4.423	-8.854	-15.205	3.7	6.3	146.4	4
02	S4av	S1a= 3.8		1.716	183.263	0.577	30.5	51.5	368.7	14
02	S4an	S1a= 6.3		1.716	183.263	0.577	50.4	85.2	368.7	23
03	S2av	S1a= 3.8		0.020	-0.220	-0.067	0.0	3.8	146.4	3
03	S2an	S1a= 6.3		0.020	-0.220	-0.067	0.0	6.4	146.4	4
04	S2av	S1a= 3.8		0.515	0.785	3.115	0.4	4.3	146.4	3
04	S2an	S1a= 6.3		0.515	0.785	3.115	0.7	7.1	146.4	5

Pt 9 Str 20 v M01 Da= 1220.0 mm s= 6.0 mm (VUU) V-Naht Umf.,Ubear.
 Str 20 n M01 Da= 1220.0 mm s= 6.0 mm ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1av	0.5	58.9	3.802	-8.980	-15.205	3.5	6.1	146.4	4
01	S1an	0.5	58.9	3.802	-8.980	-15.205	3.5	6.1	146.4	4
02	S4av	S1a= 6.1		1.985	166.177	0.577	43.3	77.9	368.7	21
02	S4an	S1a= 6.1		1.985	166.177	0.577	43.3	77.9	368.7	21
03	S2av	S1a= 6.1		0.017	-0.249	-0.067	0.1	6.2	146.4	4
03	S2an	S1a= 6.1		0.017	-0.249	-0.067	0.1	6.2	146.4	4
04	S2av	S1a= 6.1		0.396	0.689	3.115	0.6	6.9	146.4	5
04	S2an	S1a= 6.1		0.396	0.689	3.115	0.6	6.9	146.4	5

Pt 13 Str 20 v M01 Da= 1220.0 mm s= 6.0 mm (VUU) V-Naht Umf.,Ubear.
 Str 20 n M01 Da= 1220.0 mm s= 6.0 mm ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1av	0.5	58.9	-14.918	44.033	-15.205	9.6	12.1	146.4	8
01	S1an	0.5	58.9	-14.918	44.033	-15.205	9.6	12.1	146.4	8
02	S4av	S1a= 12.1		10.090	348.762	0.577	90.9	131.5	368.7	36
02	S4an	S1a= 12.1		10.090	348.762	0.577	90.9	134.8	368.7	37
03	S2av	S1a= 12.1		-0.065	1.168	-0.067	0.2	12.4	146.4	8
03	S2an	S1a= 12.1		-0.065	1.168	-0.067	0.2	12.4	146.4	8
04	S2av	S1a= 12.1		0.817	2.179	3.115	0.8	13.0	146.4	9
04	S2an	S1a= 12.1		0.817	2.179	3.115	0.8	13.0	146.4	9

Pt 15 Str 20 v M01 Da= 1220.0 mm s= 6.0 mm (VUU) V-Naht Umf.,Ubear.
 ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1av	0.5	58.9	-14.242	32.950	-15.205	7.6	10.2	146.4	7
02	S4av	S1a= 10.2		9.546	335.277	0.577	87.4	129.3	368.7	35
03	S2av	S1a= 10.2		-0.062	0.912	-0.067	0.2	10.4	146.4	7
04	S2av	S1a= 10.2		0.857	2.077	3.115	0.8	11.1	146.4	8

Pt 17 Str 20 n M01 Da= 1220.0 mm s= 6.0 mm (VUU) V-Naht Umf.,Ubear.
 ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1an	0.5	58.9	-10.224	-7.284	-15.205	3.9	6.4	146.4	4
02	S4an	S1a= 6.4		6.311	255.042	0.577	66.4	104.7	368.7	28
03	S2an	S1a= 6.4		-0.046	-0.157	-0.067	0.0	6.5	146.4	4
04	S2an	S1a= 6.4		0.624	1.472	3.115	0.7	7.2	146.4	5

Pt 21 Str 20 v M01 Da= 1220.0 mm s= 6.0 mm (VUU) V-Naht Umf.,Ubear.
 Str 20 n M01 Da= 1220.0 mm s= 6.0 mm ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1av	0.5	58.9	1.542	30.259	-15.205	6.6	9.2	146.4	6
01	S1an	0.5	58.9	1.542	30.259	-15.205	6.6	9.2	146.4	6
02	S4av	S1a= 9.2		1.300	44.951	7.613	11.9	46.4	368.7	13
02	S4an	S1a= 9.2		1.300	44.951	7.613	11.9	47.7	368.7	13

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
03	S2av	S1a= 9.2	9.2	0.002	1.186	-0.067	0.2	9.4	146.4	6
03	S2an	S1a= 9.2	9.2	0.002	1.186	-0.067	0.2	9.4	146.4	6
04	S2av	S1a= 9.2	9.2	4.697	0.298	3.115	1.1	10.4	146.4	7
04	S2an	S1a= 9.2	9.2	4.697	0.298	3.115	1.1	10.4	146.4	7

Pt 361	Str 20	v M01	Da= 1220.0 mm s=	6.0 mm	(TTU)	T-Stck Uverstaerkt
	Str 20	n M01	Da= 1220.0 mm s=	6.0 mm	ii=	19.5 io= 19.5
	Str 31	n M01	Da= 168.3 mm s=	3.0 mm		

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	57.5	10.170	-0.858	-13.977	36.7	39.2	146.4	27
01	S1bn	0.5	57.5	10.163	-0.912	-14.571	37.7	40.3	146.4	27
01	S1bn	0.5	1.7	0.007	0.595	0.055	68.0	70.5	146.4	48
02	S4av	S1a= 39.2	39.2	0.402	1.571	7.753	22.4	88.5	368.7	24
02	S4an	S1a= 40.2	40.2	0.273	1.595	8.024	23.1	90.3	368.7	24
02	S4bn	S1b= 70.5	70.5	0.710	0.554	0.053	136.9	207.4	368.7	56
03	S2bv	S1b= 39.2	39.2	0.431	-0.012	-0.006	0.9	40.2	146.4	27
03	S2bn	S1b= 40.3	40.3	0.430	-0.013	-0.009	0.9	41.2	146.4	28
03	S2bn	S1b= 70.5	70.5	0.001	0.002	0.000	0.3	70.8	146.4	48
04	S2av	S1a= 39.2	39.2	0.023	3.841	2.053	9.2	48.6	146.4	33
04	S2an	S1a= 40.2	40.2	0.487	3.842	2.296	9.5	49.9	146.4	34
04	S2bn	S1b= 70.5	70.5	0.509	0.243	0.000	64.2	134.8	146.4	92

Pt 49	Str 21	n M01	Da= 1220.0 mm s=	6.0 mm	(TTV)	T-Stck Verstaerkt
	Str 22	n M01	Da= 1220.0 mm s=	6.0 mm	tH=	12.0 mm
	Str 25	n M01	Da= 406.4 mm s=	3.0 mm	ii=	9.9 io= 9.9

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bn	0.5	57.4	-32.431	-7.836	-4.758	36.4	38.9	146.4	27
01	S1bn	0.5	57.3	32.370	7.826	3.077	36.1	38.6	146.4	26
01	S1an	0.5	12.9	0.061	1.681	0.010	16.4	19.7	146.4	13
02	S4an	S1a= 38.9	38.9	7.608	1.210	0.001	11.1	60.7	368.7	16
02	S4an	S1a= 38.6	38.6	8.388	1.459	0.003	12.2	59.0	368.7	16
02	S4an	S1a= 19.7	19.7	15.996	0.004	2.669	210.2	230.0	368.7	62
03	S2bn	S1b= 38.9	38.9	-1.373	-0.298	-0.003	1.5	40.4	146.4	28
03	S2bn	S1b= 38.6	38.6	1.372	0.297	0.002	1.5	40.1	146.4	27
03	S2an	S1a= 19.7	19.7	0.001	0.001	0.000	0.0	19.8	146.4	13
04	S2an	S1a= 38.9	38.9	0.911	4.126	0.714	4.6	43.5	146.4	30
04	S2bn	S1b= 38.6	38.6	0.917	4.129	0.450	4.6	43.2	146.4	30
04	S2an	S1a= 19.7	19.7	0.409	0.263	0.040	4.7	24.5	146.4	17

Pt 47	Str 21	v M01	Da= 1220.0 mm s=	6.0 mm	(VUU)	V-Naht Umf.,Ubear.
	Str 21	n M01	Da= 1220.0 mm s=	6.0 mm	ii=	1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	57.4	0.433	3.737	-4.758	1.2	3.7	146.4	3
01	S1bn	0.5	57.4	0.433	3.737	-4.758	1.2	3.7	146.4	3
02	S4av	S1a= 3.7	3.7	0.162	0.724	0.001	0.2	14.6	368.7	4
02	S4an	S1a= 3.7	3.7	0.162	0.724	0.001	0.2	14.6	368.7	4
03	S2bv	S1b= 3.7	3.7	0.001	0.157	-0.003	0.0	3.8	146.4	3
03	S2bn	S1b= 3.7	3.7	0.001	0.157	-0.003	0.0	3.8	146.4	3

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
04	S2av	S1a=	3.7	3.163	0.024	0.714	0.6	4.4	146.4	3
04	S2an	S1a=	3.7	3.163	0.024	0.714	0.6	4.4	146.4	3

Pt 45 Str 21 v M01 Da= 1220.0 mm s= 6.0 mm (VUU) V-Naht Umf.,Ubear.
 Str 21 n M01 Da= 1220.0 mm s= 6.0 mm ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	57.4	0.666	33.381	-4.758	6.6	9.1	146.4	6
01	S1bn	0.5	57.4	0.666	33.381	-4.758	6.6	9.1	146.4	6
02	S4av	S1a=	9.1	0.113	0.573	0.001	0.2	20.0	368.7	5
02	S4an	S1a=	9.1	0.113	0.573	0.001	0.2	21.9	368.7	6
03	S2bv	S1b=	9.1	0.001	1.408	-0.003	0.3	9.4	146.4	6
03	S2bn	S1b=	9.1	0.001	1.408	-0.003	0.3	9.4	146.4	6
04	S2av	S1a=	9.1	6.073	0.007	0.714	1.2	10.3	146.4	7
04	S2an	S1a=	9.1	6.073	0.007	0.714	1.2	10.3	146.4	7

Pt 43 Str 21 v M01 Da= 1220.0 mm s= 6.0 mm (TTV) T-Stck Verstaerkt
 Str 21 n M01 Da= 1220.0 mm s= 6.0 mm tH= 12.0 mm
 Str 27 n M01 Da= 406.4 mm s= 3.0 mm ii= 9.9 io= 9.9

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	57.4	-24.588	-5.747	-4.758	27.7	30.3	146.4	21
01	S1bn	0.5	57.4	-24.640	-5.756	-6.502	28.2	30.7	146.4	21
01	S1an	0.5	12.9	0.052	1.744	0.008	17.0	20.3	146.4	14
02	S4av	S1a=	30.2	6.237	1.161	0.001	9.1	52.0	368.7	14
02	S4an	S1a=	30.7	6.564	0.972	0.006	9.5	55.1	368.7	15
02	S4an	S1a=	20.3	12.801	0.006	2.133	168.2	188.6	368.7	51
03	S2bv	S1b=	30.3	-1.041	-0.226	-0.003	1.1	31.4	146.4	21
03	S2bn	S1b=	30.7	-1.042	-0.226	-0.004	1.2	31.9	146.4	22
03	S2an	S1a=	20.3	0.001	0.001	0.000	0.0	20.4	146.4	14
04	S2av	S1a=	30.2	0.515	2.193	0.714	2.5	32.8	146.4	22
04	S2an	S1a=	30.7	0.516	2.192	1.000	2.7	33.4	146.4	23
04	S2an	S1a=	20.3	0.410	0.286	0.040	4.9	25.2	146.4	17

Pt 41 Str 21 v M01 Da= 1220.0 mm s= 6.0 mm (VUU) V-Naht Umf.,Ubear.
 Str 21 n M01 Da= 1220.0 mm s= 6.0 mm ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	57.4	0.415	27.022	-6.502	5.4	8.0	146.4	5
01	S1bn	0.5	57.4	0.415	27.022	-6.502	5.4	8.0	146.4	5
02	S4av	S1a=	7.9	0.092	0.268	0.006	0.1	22.9	368.7	6
02	S4an	S1a=	7.9	0.092	0.268	0.006	0.1	24.6	368.7	7
03	S2bv	S1b=	8.0	0.001	1.139	-0.004	0.2	8.2	146.4	6
03	S2bn	S1b=	8.0	0.001	1.139	-0.004	0.2	8.2	146.4	6
04	S2av	S1a=	7.9	4.593	0.001	1.000	0.9	8.9	146.4	6
04	S2an	S1a=	7.9	4.593	0.001	1.000	0.9	8.9	146.4	6

Pt 39 Str 21 v M01 Da= 1220.0 mm s= 6.0 mm (TTV) T-Stck Verstaerkt
 Str 21 n M01 Da= 1220.0 mm s= 6.0 mm tH= 12.0 mm
 Str 28 n M01 Da= 406.4 mm s= 3.0 mm ii= 9.9 io= 9.9

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	57.4	-26.703	-6.212	-6.502	30.4	32.9	146.4	22
01	S1bn	0.5	57.4	-26.753	-6.220	-8.329	31.0	33.5	146.4	23
01	S1an	0.5	12.8	0.050	1.827	0.008	17.8	21.2	146.4	14
02	S4av	S1a= 32.9		4.884	0.831	0.006	7.1	56.6	368.7	15
02	S4an	S1a= 33.5		5.055	0.823	0.016	7.4	59.7	368.7	16
02	S4an	S1a= 21.2		9.939	0.011	1.655	130.6	151.8	368.7	41
03	S2bv	S1b= 32.9		-1.130	-0.245	-0.004	1.2	34.2	146.4	23
03	S2bn	S1b= 33.5		-1.131	-0.245	-0.005	1.2	34.8	146.4	24
03	S2an	S1a= 21.2		0.001	0.001	0.000	0.0	21.2	146.4	14
04	S2av	S1a= 32.9		0.583	2.529	1.000	3.0	36.0	146.4	25
04	S2an	S1a= 33.5		0.583	2.531	1.297	3.1	36.7	146.4	25
04	S2an	S1a= 21.2		0.411	0.297	0.040	4.9	26.1	146.4	18

Pt 37 Str 21 v M01 Da= 1220.0 mm s= 6.0 mm (VUU) V-Naht Umf.,Ubear.
 Str 21 n M01 Da= 1220.0 mm s= 6.0 mm ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	57.4	0.481	25.620	-8.329	5.3	7.8	146.4	5
01	S1bn	0.5	57.4	0.481	25.620	-8.329	5.3	7.8	146.4	5
02	S4av	S1a= 7.8		0.037	0.247	0.016	0.1	26.7	368.7	7
02	S4an	S1a= 7.8		0.037	0.247	0.016	0.1	28.3	368.7	8
03	S2bv	S1b= 7.8		0.001	1.080	-0.005	0.2	8.0	146.4	5
03	S2bn	S1b= 7.8		0.001	1.080	-0.005	0.2	8.0	146.4	5
04	S2av	S1a= 7.8		5.733	0.002	1.297	1.1	9.0	146.4	6
04	S2an	S1a= 7.8		5.733	0.002	1.297	1.1	9.0	146.4	6

Pt 35 Str 21 v M01 Da= 1220.0 mm s= 6.0 mm (TTV) T-Stck Verstaerkt
 Str 21 n M01 Da= 1220.0 mm s= 6.0 mm tH= 12.0 mm
 Str 29 n M01 Da= 406.4 mm s= 3.0 mm ii= 9.9 io= 9.9

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	57.4	-32.442	-7.457	-8.329	37.0	39.6	146.4	27
01	S1bn	0.5	57.4	-32.503	-7.467	-10.263	37.6	40.2	146.4	27
01	S1an	0.5	12.8	0.062	1.933	0.010	18.8	22.2	146.4	15
02	S4av	S1a= 39.5		3.727	0.524	0.016	5.4	65.4	368.7	18
02	S4an	S1a= 40.2		1.098	0.201	5.588	8.2	69.5	368.7	19
02	S4an	S1a= 22.2		7.150	0.014	1.192	94.0	116.2	368.7	32
03	S2bv	S1b= 39.6		-1.372	-0.298	-0.005	1.5	41.1	146.4	28
03	S2bn	S1b= 40.2		-1.373	-0.298	-0.006	1.5	41.7	146.4	28
03	S2an	S1a= 22.2		0.001	0.001	0.000	0.0	22.2	146.4	15
04	S2av	S1a= 39.5		0.748	3.315	1.297	3.9	43.5	146.4	30
04	S2an	S1a= 40.2		0.740	3.310	1.604	4.0	44.3	146.4	30
04	S2an	S1a= 22.2		0.413	0.308	0.040	5.0	27.2	146.4	19

Pt 33 Str 21 v M01 Da= 1220.0 mm s= 6.0 mm (VUU) V-Naht Umf.,Ubear.
 Str 21 n M01 Da= 1220.0 mm s= 6.0 mm ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	57.4	0.139	3.722	-10.263	2.1	4.7	146.4	3
01	S1bn	0.5	57.4	0.139	3.722	-10.263	2.1	4.7	146.4	3
02	S4av	S1a= 4.6		0.102	0.201	0.030	0.1	27.6	368.7	7
02	S4an	S1a= 4.6		0.102	0.201	0.030	0.1	27.6	368.7	7
03	S2bv	S1b= 4.7		-0.001	0.157	-0.006	0.0	4.7	146.4	3
03	S2bn	S1b= 4.7		-0.001	0.157	-0.006	0.0	4.7	146.4	3
04	S2av	S1a= 4.6		2.691	0.024	1.604	0.6	5.3	146.4	4
04	S2an	S1a= 4.6		2.691	0.024	1.604	0.6	5.3	146.4	4

Pt 31 Str 21 v M01 Da= 1220.0 mm s= 6.0 mm (VUU) V-Naht Umf.,Ubear.
 Str 21 n M01 Da= 1220.0 mm s= 6.0 mm ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	57.4	0.248	33.365	-10.263	6.8	9.4	146.4	6
01	S1bn	0.5	57.4	0.248	33.365	-10.263	6.8	9.4	146.4	6
02	S4av	S1a= 9.3		0.134	0.411	0.030	0.1	32.3	368.7	9
02	S4an	S1a= 9.3		0.134	0.411	0.030	0.1	34.2	368.7	9
03	S2bv	S1b= 9.4		-0.000	1.407	-0.006	0.3	9.6	146.4	7
03	S2bn	S1b= 9.4		-0.000	1.407	-0.006	0.3	9.6	146.4	7
04	S2av	S1a= 9.3		5.358	0.007	1.604	1.1	10.5	146.4	7
04	S2an	S1a= 9.3		5.358	0.007	1.604	1.1	10.5	146.4	7

Pt 29 Str 21 v M01 Da= 1220.0 mm s= 6.0 mm (TTV) T-Stck Verstaerkt
 Str 21 n M01 Da= 1220.0 mm s= 6.0 mm tH= 12.0 mm
 Str 30 n M01 Da= 406.4 mm s= 3.0 mm ii= 9.9 io= 9.9

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	57.4	-24.757	-5.481	-10.263	29.5	32.1	146.4	22
01	S1bn	0.5	57.5	-24.809	-5.490	-12.336	30.5	33.0	146.4	23
01	S1an	0.5	12.8	0.052	2.074	0.009	20.2	23.5	146.4	16
02	S4av	S1a= 32.0		0.389	0.234	5.588	8.1	63.2	368.7	17
02	S4an	S1a= 33.0		0.450	0.091	6.764	9.8	67.7	368.7	18
02	S4an	S1a= 23.5		4.201	0.022	0.705	55.2	78.8	368.7	21
03	S2bv	S1b= 32.1		-1.045	-0.224	-0.006	1.2	33.2	146.4	23
03	S2bn	S1b= 33.0		-1.046	-0.224	-0.007	1.2	34.2	146.4	23
03	S2an	S1a= 23.5		0.001	0.001	0.000	0.0	23.6	146.4	16
04	S2av	S1a= 32.0		0.503	2.130	1.604	2.9	35.0	146.4	24
04	S2an	S1a= 33.0		0.505	2.130	1.942	3.2	36.2	146.4	25
04	S2an	S1a= 23.5		0.414	0.338	0.040	5.2	28.8	146.4	20

Pt 27 Str 21 v M01 Da= 1220.0 mm s= 6.0 mm (VUU) V-Naht Umf.,Ubear.
 Str 21 n M01 Da= 1220.0 mm s= 6.0 mm ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	57.5	0.673	26.417	-12.336	5.7	8.2	146.4	6
01	S1bn	0.5	57.5	0.673	26.417	-12.336	5.7	8.2	146.4	6
02	S4av	S1a= 8.2		0.450	0.891	0.052	0.3	35.3	368.7	10
02	S4an	S1a= 8.2		0.450	0.891	0.052	0.3	36.9	368.7	10

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
03	S2bv	S1b=	8.2	0.006	1.117	-0.007	0.2	8.5	146.4	6
03	S2bn	S1b=	8.2	0.006	1.117	-0.007	0.2	8.5	146.4	6
04	S2av	S1a=	8.2	5.554	0.002	1.942	1.1	9.5	146.4	6
04	S2an	S1a=	8.2	5.554	0.002	1.942	1.1	9.5	146.4	6

Pt 25	Str 21	v M01	Da= 1220.0 mm s=	6.0 mm (TTV)	T-Stck	Verstaerkt
	Str 20	v M01	Da= 1220.0 mm s=	6.0 mm tH=	12.0 mm	
	Str 26	n M01	Da= 406.4 mm s=	3.0 mm ii=	9.9 io=	9.9

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	57.3	29.845	-7.295	12.336	35.7	38.3	146.4	26
01	S1bv	0.5	57.3	-29.902	7.301	-14.571	36.7	39.3	146.4	27
01	S1an	0.5	12.8	-0.057	-2.235	0.007	21.7	25.1	146.4	17
02	S4av	S1a=	38.2	6.962	3.350	6.764	14.8	79.6	368.7	22
02	S4av	S1a=	39.2	7.101	3.393	8.024	16.2	82.3	368.7	22
02	S4an	S1a=	25.1	1.712	1.236	0.291	27.6	54.6	368.7	15
03	S2bv	S1b=	38.3	1.247	-0.280	0.007	1.4	39.6	146.4	27
03	S2bv	S1b=	39.3	-1.247	0.280	-0.009	1.4	40.7	146.4	28
03	S2an	S1a=	25.1	-0.001	-0.001	0.000	0.0	25.1	146.4	17
04	S2av	S1a=	38.2	0.836	3.754	1.942	4.6	43.0	146.4	29
04	S2av	S1a=	39.2	0.843	3.751	2.296	4.8	44.2	146.4	30
04	S2an	S1a=	25.1	0.416	0.353	0.041	5.3	30.4	146.4	21

Pt 51	Str 22	v M01	Da= 1220.0 mm s=	6.0 mm (VUU)	V-Naht	Umf.,Ubear.
	Str 22	n M01	Da= 1220.0 mm s=	6.0 mm ii=	1.8 io=	1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	57.3	-0.011	25.555	-3.077	5.0	7.6	146.4	5
01	S1bn	0.5	57.3	-0.011	25.555	-3.077	5.0	7.6	146.4	5
02	S4av	S1a=	7.5	0.260	0.277	0.003	0.1	15.8	368.7	4
02	S4an	S1a=	7.5	0.260	0.277	0.003	0.1	14.2	368.7	4
03	S2bv	S1b=	7.6	-0.001	1.080	-0.002	0.2	7.8	146.4	5
03	S2bn	S1b=	7.6	-0.001	1.080	-0.002	0.2	7.8	146.4	5
04	S2bv	S1b=	7.6	3.492	0.000	0.450	0.7	8.3	146.4	6
04	S2bn	S1b=	7.6	3.492	0.000	0.450	0.7	8.3	146.4	6

Pt 55	Str 23	v M01	Da= 1220.0 mm s=	6.0 mm (VUU)	V-Naht	Umf.,Ubear.
	Str 23	n M01	Da= 1220.0 mm s=	6.0 mm ii=	1.8 io=	1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	57.3	2.979	25.062	-1.442	4.9	7.5	146.4	5
01	S1bn	0.5	57.3	2.979	25.062	-1.442	4.9	7.5	146.4	5
02	S4av	S1a=	7.4	1.437	1.852	0.016	0.6	10.5	368.7	3
02	S4an	S1a=	7.4	1.437	1.852	0.016	0.6	12.1	368.7	3
03	S2bv	S1b=	7.5	0.003	1.136	-0.001	0.2	7.7	146.4	5
03	S2bn	S1b=	7.5	0.003	1.136	-0.001	0.2	7.7	146.4	5
04	S2bv	S1b=	7.5	13.807	0.042	0.162	2.7	10.2	146.4	7
04	S2bn	S1b=	7.5	13.807	0.042	0.162	2.7	10.2	146.4	7

Pt 59 Str 24 v M01 Da= 1220.0 mm s= 6.0 mm (VUU) V-Naht Umf.,Ubear.
 ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	57.3	0.000	-0.000	0.000	0.0	2.5	146.4	2
02	S4bv	S1b= 2.5		0.000	0.000	0.000	0.0	2.5	368.7	1
03	S2bv	S1b= 2.5		0.000	0.000	0.000	0.0	2.5	146.4	2
04	S2bv	S1b= 2.5		0.000	0.000	0.000	0.0	2.5	146.4	2

Pt 257 Str 25 v M01 Da= 406.4 mm s= 3.0 mm (BGL) Bogen GLatt
 Str 25 m M01 Da= 406.4 mm s= 3.0 mm R= 610.0 mm
 Str 25 n M01 Da= 406.4 mm s= 3.0 mm ii= 6.7 io= 6.7

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1av	0.5	12.4	0.375	-0.036	0.010	5.0	8.2	146.4	6
01	S1am	0.5	12.5	0.478	-0.035	0.007	6.3	9.6	146.4	7
01	S1an	0.5	12.4	0.494	-0.033	0.003	6.5	9.8	146.4	7
02	S4av	S1a= 8.2		0.018	9.362	2.669	171.2	179.5	368.7	49
02	S4am	S1a= 9.6		0.019	9.106	1.687	162.9	172.5	368.7	47
02	S4an	S1a= 9.8		0.018	8.748	0.737	154.4	164.2	368.7	45
03	S2av	S1a= 8.2		0.001	-0.001	0.000	0.0	8.3	146.4	6
03	S2am	S1a= 9.6		0.001	-0.001	0.000	0.0	9.6	146.4	7
03	S2an	S1a= 9.8		0.001	-0.001	0.000	0.0	9.8	146.4	7
04	S2av	S1a= 8.2		0.064	0.145	0.040	2.2	10.4	146.4	7
04	S2am	S1a= 9.6		0.052	0.133	0.025	1.9	11.5	146.4	8
04	S2an	S1a= 9.8		0.042	0.120	0.012	1.7	11.5	146.4	8

Pt 271 Str 25 v M01 Da= 406.4 mm s= 7.1 mm (VUU) V-Naht Umf.,Ubear.
 ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1av	0.5	11.9	-0.423	0.029	0.003	0.7	2.0	146.4	1
02	S4av	S1a= 2.0		0.015	7.487	0.737	15.5	17.5	368.7	5
03	S2av	S1a= 2.0		-0.001	0.001	0.000	0.0	2.0	146.4	1
04	S2av	S1a= 2.0		0.018	0.085	0.012	0.1	2.1	146.4	1

Pt 273 Str 25 n M01 Da= 406.4 mm s= 7.1 mm (VUU) V-Naht Umf.,Ubear.
 ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1an	0.5	8.8	-0.343	0.023	0.003	0.5	1.5	146.4	1
02	S4an	S1a= 1.5		0.013	6.067	0.737	12.6	14.1	368.7	4
03	S2an	S1a= 1.5		-0.001	0.000	0.000	0.0	1.5	146.4	1
04	S2an	S1a= 1.5		0.002	0.053	0.012	0.1	1.6	146.4	1

Pt 275 Str 25 v M01 Da= 406.4 mm s= 3.0 mm (VUU) V-Naht Umf.,Ubear.
 ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1av	0.5	7.7	-0.107	0.007	0.003	0.4	2.4	146.4	2
02	S4av	S1a= 2.4		0.004	1.869	0.737	9.5	11.9	368.7	3
03	S2av	S1a= 2.4		-0.000	0.000	0.000	0.0	2.4	146.4	2

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
04	S2av	S1a= 2.4		0.016	0.001	0.012	0.1	2.5	146.4	2

Pt 277 Str 25 n M01 Da= 406.4 mm s= 3.0 mm (VUU) V-Naht Umf.,Ubear.
 ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bn	0.5	6.3	0.104	-0.007	0.003	0.4	2.1	146.4	1
02	S4an	S1a= 2.0		0.004	1.879	0.737	9.5	11.6	368.7	3
03	S2bn	S1b= 2.1		0.000	-0.000	0.000	0.0	2.1	146.4	1
04	S2bn	S1b= 2.1		0.029	0.012	0.012	0.1	2.2	146.4	1

Pt 281 Str 25 v M01 Da= 406.4 mm s= 3.0 mm (VUU) V-Naht Umf.,Ubear.
 ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	6.3	0.125	-0.009	0.003	0.4	2.1	146.4	1
02	S4av	S1a= 2.1		0.005	2.255	0.737	11.2	13.4	368.7	4
03	S2bv	S1b= 2.1		0.000	-0.000	0.000	0.0	2.1	146.4	1
04	S2bv	S1b= 2.1		0.036	0.016	0.012	0.1	2.3	146.4	2

Pt 283 Str 26 v M01 Da= 406.4 mm s= 3.0 mm (BGL) Bogen GLatt
 Str 26 m M01 Da= 406.4 mm s= 3.0 mm R= 610.0 mm
 Str 26 n M01 Da= 406.4 mm s= 3.0 mm ii= 6.7 io= 6.7

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1av	0.5	12.4	0.044	-0.034	0.007	0.7	4.0	146.4	3
01	S1am	0.5	12.5	0.163	-0.032	0.003	2.2	5.5	146.4	4
01	S1an	0.5	12.5	0.195	-0.031	0.000	2.6	5.9	146.4	4
02	S4av	S1a= 4.0		0.017	1.001	0.291	19.0	24.9	368.7	7
02	S4am	S1a= 5.5		0.085	0.975	0.186	18.2	25.5	368.7	7
02	S4an	S1a= 5.9		0.104	0.937	0.085	17.3	25.0	368.7	7
03	S2av	S1a= 4.0		0.001	-0.000	0.000	0.0	4.0	146.4	3
03	S2am	S1a= 5.5		0.001	-0.000	0.000	0.0	5.5	146.4	4
03	S2an	S1a= 5.9		0.001	-0.000	0.000	0.0	5.9	146.4	4
04	S2av	S1a= 4.0		0.117	0.149	0.041	2.6	6.6	146.4	4
04	S2am	S1a= 5.5		0.103	0.137	0.026	2.3	7.8	146.4	5
04	S2an	S1a= 5.9		0.090	0.124	0.012	2.0	7.9	146.4	5

Pt 285 Str 26 v M01 Da= 406.4 mm s= 7.1 mm (VUU) V-Naht Umf.,Ubear.
 ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1av	0.5	11.9	-0.167	0.026	0.000	0.3	1.6	146.4	1
02	S4av	S1a= 1.6		0.089	0.802	0.085	1.7	4.1	368.7	1
03	S2av	S1a= 1.6		-0.001	0.000	0.000	0.0	1.6	146.4	1
04	S2av	S1a= 1.6		0.059	0.088	0.012	0.2	1.8	146.4	1

Pt 287 Str 26 n M01 Da= 406.4 mm s= 7.1 mm (VUU) V-Naht Umf.,Ubear.
 ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1an	0.5	8.8	-0.135	0.021	0.000	0.2	1.2	146.4	1
02	S4an	S1a= 1.2		0.072	0.650	0.085	1.4	3.4	368.7	1
03	S2an	S1a= 1.2		-0.000	0.000	0.000	0.0	1.2	146.4	1
04	S2an	S1a= 1.2		0.032	0.055	0.012	0.1	1.3	146.4	1

Pt 289 Str 26 v M01 Da= 406.4 mm s= 3.0 mm (VUU) V-Naht Umf.,Ubear.
 ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1av	0.5	7.7	-0.042	0.007	0.000	0.2	2.2	146.4	1
02	S4av	S1a= 2.2		0.023	0.200	0.085	1.0	5.1	368.7	1
03	S2av	S1a= 2.2		-0.000	0.000	0.000	0.0	2.2	146.4	1
04	S2av	S1a= 2.2		0.005	0.002	0.012	0.0	2.2	146.4	2

Pt 291 Str 26 n M01 Da= 406.4 mm s= 3.0 mm (VUU) V-Naht Umf.,Ubear.
 ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bn	0.5	6.3	0.041	-0.007	0.000	0.1	1.8	146.4	1
02	S4an	S1a= 1.8		0.022	0.201	0.085	1.0	3.1	368.7	1
03	S2bn	S1b= 1.8		0.000	-0.000	0.000	0.0	1.8	146.4	1
04	S2bn	S1b= 1.8		0.018	0.011	0.012	0.1	1.9	146.4	1

Pt 295 Str 26 v M01 Da= 406.4 mm s= 3.0 mm (VUU) V-Naht Umf.,Ubear.
 ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	6.3	0.049	-0.008	0.000	0.2	1.9	146.4	1
02	S4av	S1a= 1.8		0.026	0.241	0.085	1.2	3.3	368.7	1
03	S2bv	S1b= 1.9		0.000	-0.000	0.000	0.0	1.9	146.4	1
04	S2bv	S1b= 1.9		0.024	0.015	0.012	0.1	2.0	146.4	1

Pt 339 Str 27 v M01 Da= 406.4 mm s= 3.0 mm (BGL) Bogen GLatt
 Str 27 m M01 Da= 406.4 mm s= 3.0 mm R= 610.0 mm
 Str 27 n M01 Da= 406.4 mm s= 3.0 mm ii= 6.7 io= 6.7

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1av	0.5	12.4	0.337	-0.030	0.008	4.5	7.7	146.4	5
01	S1am	0.5	12.5	0.442	-0.030	0.005	5.8	9.1	146.4	6
01	S1an	0.5	12.4	0.459	-0.028	0.002	6.1	9.3	146.4	6
02	S4av	S1a= 7.7		0.012	7.493	2.133	137.0	144.8	368.7	39
02	S4am	S1a= 9.1		0.013	7.288	1.347	130.3	139.5	368.7	38
02	S4an	S1a= 9.3		0.012	7.001	0.588	123.6	132.9	368.7	36
03	S2av	S1a= 7.7		0.001	-0.000	0.000	0.0	7.8	146.4	5
03	S2am	S1a= 9.1		0.001	-0.000	0.000	0.0	9.1	146.4	6
03	S2an	S1a= 9.3		0.001	-0.000	0.000	0.0	9.4	146.4	6

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
04	S2av	S1a=	7.7	0.077	0.146	0.040	2.2	10.0	146.4	7
04	S2am	S1a=	9.1	0.065	0.133	0.025	2.0	11.1	146.4	8
04	S2an	S1a=	9.3	0.054	0.120	0.011	1.7	11.1	146.4	8

Pt 341 Str 27 v M01 Da= 406.4 mm s= 7.1 mm (VUU) V-Naht Umf.,Ubear.
 ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1av	0.5	11.9	-0.393	0.024	0.002	0.6	1.9	146.4	1
02	S4av	S1a=	1.9	0.011	5.991	0.588	12.4	14.4	368.7	4
03	S2av	S1a=	1.9	-0.001	0.000	0.000	0.0	2.0	146.4	1
04	S2av	S1a=	1.9	0.028	0.085	0.011	0.1	2.1	146.4	1

Pt 343 Str 27 n M01 Da= 406.4 mm s= 7.1 mm (VUU) V-Naht Umf.,Ubear.
 ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1an	0.5	8.8	-0.319	0.020	0.002	0.5	1.5	146.4	1
02	S4an	S1a=	1.5	0.009	4.855	0.588	10.1	11.6	368.7	3
03	S2an	S1a=	1.5	-0.001	0.000	0.000	0.0	1.5	146.4	1
04	S2an	S1a=	1.5	0.007	0.053	0.011	0.1	1.6	146.4	1

Pt 345 Str 27 v M01 Da= 406.4 mm s= 3.0 mm (VUU) V-Naht Umf.,Ubear.
 ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1av	0.5	7.7	-0.099	0.006	0.002	0.4	2.4	146.4	2
02	S4av	S1a=	2.4	0.003	1.495	0.588	7.6	10.0	368.7	3
03	S2av	S1a=	2.4	-0.000	0.000	0.000	0.0	2.4	146.4	2
04	S2av	S1a=	2.4	0.013	0.001	0.011	0.1	2.4	146.4	2

Pt 347 Str 27 n M01 Da= 406.4 mm s= 3.0 mm (VUU) V-Naht Umf.,Ubear.
 ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bn	0.5	6.3	0.097	-0.006	0.002	0.3	2.0	146.4	1
02	S4an	S1a=	2.0	0.003	1.504	0.588	7.6	9.7	368.7	3
03	S2bn	S1b=	2.0	0.000	-0.000	0.000	0.0	2.0	146.4	1
04	S2bn	S1b=	2.0	0.026	0.012	0.011	0.1	2.1	146.4	1

Pt 351 Str 27 v M01 Da= 406.4 mm s= 3.0 mm (VUU) V-Naht Umf.,Ubear.
 ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	6.3	0.116	-0.007	0.002	0.4	2.1	146.4	1
02	S4av	S1a=	2.1	0.003	1.804	0.588	9.0	11.1	368.7	3
03	S2bv	S1b=	2.1	0.000	-0.000	0.000	0.0	2.1	146.4	1
04	S2bv	S1b=	2.1	0.033	0.016	0.011	0.1	2.2	146.4	2

Pt 325 Str 28 v M01 Da= 406.4 mm s= 3.0 mm (BGL) Bogen GLatt
 Str 28 m M01 Da= 406.4 mm s= 3.0 mm R= 610.0 mm
 Str 28 n M01 Da= 406.4 mm s= 3.0 mm ii= 6.7 io= 6.7

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1av	0.5	12.4	0.288	-0.029	0.008	3.8	7.1	146.4	5
01	S1am	0.5	12.5	0.395	-0.029	0.005	5.2	8.5	146.4	6
01	S1an	0.5	12.4	0.415	-0.028	0.002	5.5	8.8	146.4	6
02	S4av	S1a= 7.1		0.009	5.817	1.655	106.4	113.5	368.7	31
02	S4am	S1a= 8.5		0.010	5.658	1.044	101.2	109.7	368.7	30
02	S4an	S1a= 8.8		0.010	5.435	0.455	95.9	104.7	368.7	28
03	S2av	S1a= 7.1		0.001	-0.000	0.000	0.0	7.1	146.4	5
03	S2am	S1a= 8.5		0.001	-0.000	0.000	0.0	8.5	146.4	6
03	S2an	S1a= 8.8		0.001	-0.000	0.000	0.0	8.8	146.4	6
04	S2av	S1a= 7.1		0.084	0.147	0.040	2.3	9.4	146.4	6
04	S2am	S1a= 8.5		0.071	0.134	0.025	2.0	10.5	146.4	7
04	S2an	S1a= 8.8		0.060	0.121	0.011	1.8	10.5	146.4	7

Pt 327 Str 28 v M01 Da= 406.4 mm s= 7.1 mm (VUU) V-Naht Umf.,Ubear.
 ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1av	0.5	11.9	-0.355	0.024	0.002	0.5	1.9	146.4	1
02	S4av	S1a= 1.9		0.009	4.652	0.455	9.6	11.5	368.7	3
03	S2av	S1a= 1.9		-0.001	0.000	0.000	0.0	1.9	146.4	1
04	S2av	S1a= 1.9		0.033	0.086	0.011	0.1	2.0	146.4	1

Pt 329 Str 28 n M01 Da= 406.4 mm s= 7.1 mm (VUU) V-Naht Umf.,Ubear.
 ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1an	0.5	8.8	-0.288	0.019	0.002	0.4	1.4	146.4	1
02	S4an	S1a= 1.4		0.007	3.770	0.455	7.8	9.3	368.7	3
03	S2an	S1a= 1.4		-0.001	0.000	0.000	0.0	1.4	146.4	1
04	S2an	S1a= 1.4		0.011	0.053	0.011	0.1	1.5	146.4	1

Pt 331 Str 28 v M01 Da= 406.4 mm s= 3.0 mm (VUU) V-Naht Umf.,Ubear.
 ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1av	0.5	7.7	-0.090	0.006	0.002	0.3	2.3	146.4	2
02	S4av	S1a= 2.3		0.048	0.801	0.314	4.1	8.3	368.7	2
03	S2av	S1a= 2.3		-0.000	0.000	0.000	0.0	2.3	146.4	2
04	S2av	S1a= 2.3		0.012	0.002	0.011	0.1	2.4	146.4	2

Pt 333 Str 28 n M01 Da= 406.4 mm s= 3.0 mm (VUU) V-Naht Umf.,Ubear.
 ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bn	0.5	6.3	0.087	-0.006	0.002	0.3	2.0	146.4	1
02	S4an	S1a= 2.0		0.002	1.167	0.455	5.9	7.9	368.7	2
03	S2bn	S1b= 2.0		0.000	-0.000	0.000	0.0	2.0	146.4	1

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
04	S2bn	S1b= 2.0		0.025	0.012	0.011	0.1	2.1	146.4	1

Pt 337 Str 28 v M01 Da= 406.4 mm s= 3.0 mm (VUU) V-Naht Umf.,Ubear.
 ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	6.3	0.105	-0.007	0.002	0.4	2.1	146.4	1
02	S4av	S1a= 2.0		0.003	1.401	0.455	7.0	9.0	368.7	2
03	S2bv	S1b= 2.1		0.000	-0.000	0.000	0.0	2.1	146.4	1
04	S2bv	S1b= 2.1		0.031	0.016	0.011	0.1	2.2	146.4	2

Pt 311 Str 29 v M01 Da= 406.4 mm s= 3.0 mm (BGL) Bogen GLatt
 Str 29 m M01 Da= 406.4 mm s= 3.0 mm R= 610.0 mm
 Str 29 n M01 Da= 406.4 mm s= 3.0 mm ii= 6.7 io= 6.7

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1av	0.5	12.4	0.224	-0.036	0.010	3.0	6.3	146.4	4
01	S1am	0.5	12.5	0.334	-0.035	0.006	4.4	7.7	146.4	5
01	S1an	0.5	12.4	0.357	-0.034	0.002	4.7	8.0	146.4	5
02	S4av	S1a= 6.3		0.007	4.185	1.192	76.5	82.8	368.7	22
02	S4am	S1a= 7.7		0.008	4.070	0.753	72.8	80.6	368.7	22
02	S4an	S1a= 8.0		0.008	3.910	0.329	69.0	77.1	368.7	21
03	S2av	S1a= 6.3		0.001	-0.001	0.000	0.0	6.3	146.4	4
03	S2am	S1a= 7.7		0.001	-0.001	0.000	0.0	7.7	146.4	5
03	S2an	S1a= 8.0		0.001	-0.001	0.000	0.0	8.0	146.4	5
04	S2av	S1a= 6.3		0.090	0.147	0.040	2.3	8.6	146.4	6
04	S2am	S1a= 7.7		0.077	0.135	0.026	2.1	9.8	146.4	7
04	S2an	S1a= 8.0		0.065	0.122	0.013	1.8	9.8	146.4	7

Pt 313 Str 29 v M01 Da= 406.4 mm s= 7.1 mm (VUU) V-Naht Umf.,Ubear.
 ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1av	0.5	11.9	-0.306	0.029	0.002	0.5	1.8	146.4	1
02	S4av	S1a= 1.8		0.007	3.346	0.329	6.9	8.8	368.7	2
03	S2av	S1a= 1.8		-0.001	0.001	0.000	0.0	1.8	146.4	1
04	S2av	S1a= 1.8		0.038	0.086	0.013	0.1	2.0	146.4	1

Pt 315 Str 29 n M01 Da= 406.4 mm s= 7.1 mm (VUU) V-Naht Umf.,Ubear.
 ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1an	0.5	8.8	-0.248	0.023	0.002	0.4	1.4	146.4	1
02	S4an	S1a= 1.4		0.006	2.712	0.329	5.6	7.0	368.7	2
03	S2an	S1a= 1.4		-0.001	0.000	0.000	0.0	1.4	146.4	1
04	S2an	S1a= 1.4		0.015	0.054	0.013	0.1	1.5	146.4	1

Pt 317 Str 29 v M01 Da= 406.4 mm s= 3.0 mm (VUU) V-Naht Umf.,Ubear.
 ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1av	0.5	7.7	-0.077	0.007	0.002	0.3	2.3	146.4	2
02	S4av	S1a= 2.3		0.041	0.605	0.237	3.1	7.2	368.7	2
03	S2av	S1a= 2.3		-0.000	0.000	0.000	0.0	2.3	146.4	2
04	S2av	S1a= 2.3		0.011	0.002	0.013	0.1	2.3	146.4	2

Pt 319 Str 29 n M01 Da= 406.4 mm s= 3.0 mm (VUU) V-Naht Umf.,Ubear.
 ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bn	0.5	6.3	0.075	-0.007	0.002	0.3	2.0	146.4	1
02	S4an	S1a= 1.9		0.002	0.840	0.329	4.3	6.2	368.7	2
03	S2bn	S1b= 2.0		0.000	-0.000	0.000	0.0	2.0	146.4	1
04	S2bn	S1b= 2.0		0.024	0.012	0.013	0.1	2.1	146.4	1

Pt 323 Str 29 v M01 Da= 406.4 mm s= 3.0 mm (VUU) V-Naht Umf.,Ubear.
 ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	6.3	0.090	-0.009	0.002	0.3	2.0	146.4	1
02	S4av	S1a= 2.0		0.002	1.008	0.329	5.0	7.0	368.7	2
03	S2bv	S1b= 2.0		0.000	-0.000	0.000	0.0	2.0	146.4	1
04	S2bv	S1b= 2.0		0.030	0.016	0.013	0.1	2.1	146.4	1

Pt 297 Str 30 v M01 Da= 406.4 mm s= 3.0 mm (BGL) Bogen GLatt
 Str 30 m M01 Da= 406.4 mm s= 3.0 mm R= 610.0 mm
 Str 30 n M01 Da= 406.4 mm s= 3.0 mm ii= 6.7 io= 6.7

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1av	0.5	12.4	0.140	-0.031	0.009	1.9	5.2	146.4	4
01	S1am	0.5	12.5	0.254	-0.030	0.006	3.4	6.7	146.4	5
01	S1an	0.5	12.4	0.282	-0.029	0.003	3.7	7.0	146.4	5
02	S4av	S1a= 5.2		0.003	2.458	0.705	45.0	50.2	368.7	14
02	S4am	S1a= 6.7		0.004	2.392	0.447	42.8	49.5	368.7	13
02	S4an	S1a= 7.0		0.004	2.298	0.197	40.6	47.6	368.7	13
03	S2av	S1a= 5.2		0.001	-0.000	0.000	0.0	5.2	146.4	4
03	S2am	S1a= 6.7		0.001	-0.000	0.000	0.0	6.7	146.4	5
03	S2an	S1a= 7.0		0.001	-0.000	0.000	0.0	7.0	146.4	5
04	S2av	S1a= 5.2		0.108	0.148	0.040	2.5	7.7	146.4	5
04	S2am	S1a= 6.7		0.095	0.136	0.025	2.2	8.9	146.4	6
04	S2an	S1a= 7.0		0.082	0.123	0.012	1.9	9.0	146.4	6

Pt 299 Str 30 v M01 Da= 406.4 mm s= 7.1 mm (VUU) V-Naht Umf.,Ubear.
 ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1av	0.5	11.9	-0.241	0.025	0.003	0.4	1.7	146.4	1
02	S4av	S1a= 1.7		0.004	1.967	0.197	4.1	5.8	368.7	2
03	S2av	S1a= 1.7		-0.001	0.000	0.000	0.0	1.7	146.4	1

Na	Gl	P	Fa	Mi	Mo	Mt	S(M)	S-ges	S-zul	Ausn
		(bar)	(kN)	(kNm)	(kNm)	(kNm)	(N/mm2)	(N/mm2)	(N/mm2)	(%)
04	S2av	S1a= 1.7		0.052	0.087	0.012	0.2	1.9	146.4	1

Pt 301 Str 30 n M01 Da= 406.4 mm s= 7.1 mm (VUU) V-Naht Umf.,Ubear.
 ii= 1.8 io= 1.8

Na	Gl	P	Fa	Mi	Mo	Mt	S(M)	S-ges	S-zul	Ausn
		(bar)	(kN)	(kNm)	(kNm)	(kNm)	(N/mm2)	(N/mm2)	(N/mm2)	(%)
01	S1an	0.5	8.8	-0.196	0.020	0.003	0.3	1.3	146.4	1
02	S4an	S1a= 1.3		0.103	1.275	0.156	2.7	4.7	368.7	1
03	S2an	S1a= 1.3		-0.001	0.000	0.000	0.0	1.3	146.4	1
04	S2an	S1a= 1.3		0.026	0.055	0.012	0.1	1.4	146.4	1

Pt 303 Str 30 v M01 Da= 406.4 mm s= 3.0 mm (VUU) V-Naht Umf.,Ubear.
 ii= 1.8 io= 1.8

Na	Gl	P	Fa	Mi	Mo	Mt	S(M)	S-ges	S-zul	Ausn
		(bar)	(kN)	(kNm)	(kNm)	(kNm)	(N/mm2)	(N/mm2)	(N/mm2)	(%)
01	S1av	0.5	7.7	-0.061	0.006	0.003	0.2	2.2	146.4	2
02	S4av	S1a= 2.2		0.032	0.393	0.156	2.0	6.1	368.7	2
03	S2av	S1a= 2.2		-0.000	0.000	0.000	0.0	2.2	146.4	2
04	S2av	S1a= 2.2		0.007	0.002	0.012	0.0	2.3	146.4	2

Pt 305 Str 30 n M01 Da= 406.4 mm s= 3.0 mm (VUU) V-Naht Umf.,Ubear.
 ii= 1.8 io= 1.8

Na	Gl	P	Fa	Mi	Mo	Mt	S(M)	S-ges	S-zul	Ausn
		(bar)	(kN)	(kNm)	(kNm)	(kNm)	(N/mm2)	(N/mm2)	(N/mm2)	(%)
01	S1bn	0.5	6.3	0.059	-0.006	0.003	0.2	1.9	146.4	1
02	S4an	S1a= 1.9		0.001	0.494	0.197	2.5	4.4	368.7	1
03	S2bn	S1b= 1.9		0.000	-0.000	0.000	0.0	1.9	146.4	1
04	S2bn	S1b= 1.9		0.020	0.012	0.012	0.1	2.0	146.4	1

Pt 309 Str 30 v M01 Da= 406.4 mm s= 3.0 mm (VUU) V-Naht Umf.,Ubear.
 ii= 1.8 io= 1.8

Na	Gl	P	Fa	Mi	Mo	Mt	S(M)	S-ges	S-zul	Ausn
		(bar)	(kN)	(kNm)	(kNm)	(kNm)	(N/mm2)	(N/mm2)	(N/mm2)	(%)
01	S1bv	0.5	6.3	0.071	-0.007	0.003	0.3	1.9	146.4	1
02	S4av	S1a= 1.9		0.001	0.592	0.197	3.0	4.9	368.7	1
03	S2bv	S1b= 1.9		0.000	-0.000	0.000	0.0	1.9	146.4	1
04	S2bv	S1b= 1.9		0.026	0.015	0.012	0.1	2.1	146.4	1

Pt 377 Str 31 v M01 Da= 168.3 mm s= 3.0 mm (BGL) Bogen GLatt
 Str 31 m M01 Da= 168.3 mm s= 3.0 mm R= 229.0 mm
 Str 31 n M01 Da= 168.3 mm s= 3.0 mm ii= 4.1 io= 4.1

Na	Gl	P	Fa	Mi	Mo	Mt	S(M)	S-ges	S-zul	Ausn
		(bar)	(kN)	(kNm)	(kNm)	(kNm)	(N/mm2)	(N/mm2)	(N/mm2)	(%)
01	S1bv	0.5	1.0	0.028	0.015	0.055	3.1	3.8	146.4	3
01	S1bm	0.5	1.0	0.010	-0.000	0.061	3.0	3.7	146.4	3
01	S1bn	0.5	1.0	-0.042	-0.015	0.054	3.4	4.1	146.4	3
02	S4av	S1a= 3.8		1.062	0.043	0.029	69.5	74.4	368.7	20
02	S4am	S1a= 3.7		0.982	0.025	0.057	64.3	69.0	368.7	19
02	S4an	S1a= 4.1		0.695	0.007	0.064	45.6	49.9	368.7	14

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
03	S2bv	S1b=	3.8	0.001	0.000	0.000	0.0	3.8	146.4	3
03	S2bm	S1b=	3.7	0.000	0.000	0.000	0.0	3.7	146.4	3
03	S2bn	S1b=	4.1	-0.001	-0.000	0.000	0.1	4.2	146.4	3
04	S2av	S1a=	3.8	0.070	0.003	0.000	3.4	7.4	146.4	5
04	S2am	S1a=	3.7	0.053	0.012	0.006	2.7	6.5	146.4	4
04	S2bn	S1b=	4.1	0.001	0.017	0.018	1.2	5.3	146.4	4

Pt 379 Str 31 v M01 Da= 168.3 mm s= 3.0 mm (VUU) V-Naht Umf.,Ubear.
 Str 31 n M01 Da= 168.3 mm s= 3.0 mm ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	1.0	0.032	0.149	0.054	3.4	4.1	146.4	3
01	S1bn	0.5	1.0	0.032	0.149	0.054	3.4	4.1	146.4	3
02	S4av	S1a=	4.1	0.033	0.212	0.090	6.6	10.8	368.7	3
02	S4an	S1a=	4.1	0.033	0.212	0.090	6.6	10.9	368.7	3
03	S2bv	S1b=	4.1	0.000	0.003	0.000	0.1	4.2	146.4	3
03	S2bn	S1b=	4.1	0.000	0.003	0.000	0.1	4.2	146.4	3
04	S2bv	S1b=	4.1	0.042	0.090	0.018	2.2	6.3	146.4	4
04	S2bn	S1b=	4.1	0.042	0.090	0.018	2.2	6.3	146.4	4

Pt 375 Str 31 v M01 Da= 168.3 mm s= 3.0 mm (BGL) Bogen GLatt
 Str 31 m M01 Da= 168.3 mm s= 3.0 mm R= 229.0 mm
 Str 31 n M01 Da= 168.3 mm s= 3.0 mm ii= 4.1 io= 4.1

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	1.0	0.053	-0.025	0.054	3.9	4.6	146.4	3
01	S1am	0.5	1.2	0.007	-0.051	0.023	2.8	3.5	146.4	2
01	S1an	0.5	1.2	-0.010	-0.048	-0.018	2.5	3.3	146.4	2
02	S4av	S1a=	4.6	0.715	0.003	0.064	46.9	51.9	368.7	14
02	S4am	S1a=	3.5	1.209	0.038	0.047	79.2	84.5	368.7	23
02	S4an	S1a=	3.3	1.332	0.051	0.010	87.2	92.6	368.7	25
03	S2bv	S1b=	4.6	0.001	-0.000	0.000	0.1	4.7	146.4	3
03	S2am	S1a=	3.5	0.000	-0.000	0.000	0.0	3.6	146.4	2
03	S2an	S1a=	3.3	-0.000	-0.000	-0.000	0.0	3.4	146.4	2
04	S2bv	S1b=	4.6	0.010	0.008	0.018	1.1	5.7	146.4	4
04	S2am	S1a=	3.5	0.040	0.001	0.015	2.1	5.7	146.4	4
04	S2an	S1a=	3.3	0.062	0.005	0.017	3.2	6.7	146.4	5

Pt 363 Str 31 v M01 Da= 168.3 mm s= 4.5 mm (VUU) V-Naht Umf.,Ubear.
 ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	1.0	-0.033	0.013	-0.018	0.6	1.0	146.4	1
02	S4av	S1a=	1.0	0.023	1.022	0.010	19.9	22.4	368.7	6
03	S2bv	S1b=	1.0	-0.000	0.000	-0.000	0.0	1.1	146.4	1
04	S2av	S1a=	1.0	0.041	0.060	0.017	1.1	2.2	146.4	2

Pt 373 Str 31 n M01 Da= 168.3 mm s= 4.5 mm (VUU) V-Naht Umf.,Ubear.
 ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bn	0.5	1.0	-0.027	0.014	-0.018	0.5	1.0	146.4	1

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
02	S4an	S1a= 1.0	1.0	0.012	0.899	0.010	17.5	19.9	368.7	5
03	S2bn	S1b= 1.0		-0.000	0.000	-0.000	0.0	1.0	146.4	1
04	S2an	S1a= 1.0		0.051	0.054	0.017	1.1	2.2	146.4	1

Pt 365 Str 31 v M01 Da= 168.3 mm s= 4.5 mm (VUU) V-Naht Umf.,Ubear.
 ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1bv	0.5	1.0	0.005	0.021	-0.018	0.4	0.9	146.4	1
02	S4av	S1a= 0.8		0.049	0.215	0.010	4.3	6.6	368.7	2
03	S2bv	S1b= 0.9		0.000	0.000	-0.000	0.0	0.9	146.4	1
04	S2av	S1a= 0.8		0.051	0.031	0.017	0.9	1.9	146.4	1

Pt 367 Str 31 n M01 Da= 168.3 mm s= 4.5 mm (VUU) V-Naht Umf.,Ubear.
 ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1an	0.5	1.5	0.016	0.023	-0.018	0.5	1.1	146.4	1
02	S4an	S1a= 1.1		-0.078	-0.194	-0.007	4.1	5.2	368.7	1
03	S2an	S1a= 1.1		0.000	0.000	-0.000	0.0	1.1	146.4	1
04	S2an	S1a= 1.1		0.032	0.078	0.017	1.3	2.5	146.4	2

Pt 369 Str 31 v M01 Da= 168.3 mm s= 3.0 mm (VUU) V-Naht Umf.,Ubear.
 Str 31 n M01 Da= 168.3 mm s= 3.0 mm ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1av	0.5	1.7	0.032	0.026	-0.018	1.0	2.1	146.4	1
01	S1an	0.5	1.7	0.032	0.026	-0.018	1.0	2.1	146.4	1
02	S4av	S1a= 2.1		0.100	0.344	0.010	10.2	14.4	368.7	4
02	S4an	S1a= 2.1		0.100	0.344	0.010	10.2	14.4	368.7	4
03	S2av	S1a= 2.1		0.000	0.000	-0.000	0.0	2.1	146.4	1
03	S2an	S1a= 2.1		0.000	0.000	-0.000	0.0	2.1	146.4	1
04	S2av	S1a= 2.1		0.015	0.166	0.017	3.6	5.8	146.4	4
04	S2an	S1a= 2.1		0.015	0.166	0.017	3.6	5.8	146.4	4

Pt 371 Str 31 v M01 Da= 168.3 mm s= 3.0 mm (VUU) V-Naht Umf.,Ubear.
 ii= 1.8 io= 1.8

Na	Gl	P (bar)	Fa (kN)	Mi (kNm)	Mo (kNm)	Mt (kNm)	S(M) (N/mm2)	S-ges (N/mm2)	S-zul (N/mm2)	Ausn (%)
01	S1av	0.5	2.0	0.053	0.031	-0.018	1.4	2.6	146.4	2
02	S4av	S1a= 2.6		0.141	0.805	0.010	23.3	28.0	368.7	8
03	S2av	S1a= 2.6		0.000	0.000	-0.000	0.0	2.7	146.4	2
04	S2av	S1a= 2.6		0.114	0.323	0.017	7.3	10.1	146.4	7

EXTRAKT DER SPANNUNGSANALYSE NACH EN 13480

Nachweis 01 Staendige Lasten (S1)
 Qx, MiA, MoA, MtA aus Lastfall Gewicht

Bauteile mit maximaler Spannungsausnutzung

Pkt		i	Errechn. Spannung (N/mm2)	Zulaess. Spannung (N/mm2)	Aus- nutzung (%)
361	(TTU)	19.54	70.5	146.4	48.2
35	(TTV)	9.94	40.2	146.4	27.4
25	(TTV)	9.94	39.3	146.4	26.8
49	(TTV)	9.94	38.9	146.4	26.6
57	(TTV)	9.94	38.6	146.4	26.4
39	(TTV)	9.94	33.5	146.4	22.9
29	(TTV)	9.94	33.0	146.4	22.5
53	(TTV)	9.94	32.7	146.4	22.4
23	(TTV)	9.94	31.4	146.4	21.5
43	(TTV)	9.94	30.7	146.4	21.0
113	(VUU)	1.80	30.3	146.4	20.7
115	(BGL)	6.33	29.5	146.4	20.1
119	(VUU)	1.80	26.9	146.4	18.4
125	(BGL)	6.33	24.6	146.4	16.8
189	(VUU)	1.80	21.8	146.4	14.9
117	(BGL)	6.33	17.8	146.4	12.2
95	(VUU)	1.80	15.8	146.4	10.8
81	(BGL)	6.33	14.8	146.4	10.1
79	(BGL)	6.33	14.8	146.4	10.1
85	(BGL)	6.33	14.6	146.4	10.0
353	(BGL)	6.69	13.7	146.4	9.4
109	(VUU)	1.80	13.3	146.4	9.1
69	(VUU)	1.80	13.1	146.4	8.9
137	(BGL)	6.33	12.5	146.4	8.6
13	(VUU)	1.80	12.1	146.4	8.3
89	(BGL)	6.33	11.9	146.4	8.1
83	(VUU)	1.80	11.8	146.4	8.0
127	(VUU)	1.80	11.4	146.4	7.8
67	(VUU)	1.80	11.4	146.4	7.8
5	(BGL)	7.94	11.0	146.4	7.5

0 Schnitte mit Spannungseuberschreitungen

(*)

EXTRAKT DER SPANNUNGSANALYSE NACH EN 13480

Nachweis 02 Staendige Lasten und Waermedehnung (S4)
 Qx,MiA,MoA,MtA aus Lastfall Gewicht
 Qx,MiC,MoC,MtC = RANGE aus Lastfall Temperaturlasten

Bauteile mit maximaler Spannungsausnutzung

Pkt		i	Errechn. Spannung (N/mm2)	Zulaess. Spannung (N/mm2)	Aus- nutzung (%)
5	(BGL)	7.94	320.9	368.7	87.0
57	(TTV)	9.94	290.9	368.7	78.9
53	(TTV)	9.94	269.3	368.7	73.0
49	(TTV)	9.94	230.0	368.7	62.4
255	(BGL)	6.69	212.2	368.7	57.6
361	(TTU)	19.54	207.4	368.7	56.3
1	(VUU)	1.80	206.7	368.7	56.1
23	(TTV)	9.94	194.6	368.7	52.8
43	(TTV)	9.94	188.6	368.7	51.2
257	(BGL)	6.69	179.5	368.7	48.7
39	(TTV)	9.94	151.8	368.7	41.2
339	(BGL)	6.69	144.8	368.7	39.3
353	(BGL)	6.69	144.3	368.7	39.1
13	(VUU)	1.80	134.8	368.7	36.6
15	(VUU)	1.80	129.3	368.7	35.1
89	(BGL)	6.33	121.9	368.7	33.1
85	(BGL)	6.33	121.2	368.7	32.9
103	(BGL)	6.33	116.6	368.7	31.6
35	(TTV)	9.94	116.2	368.7	31.5
325	(BGL)	6.69	113.5	368.7	30.8
99	(BGL)	6.33	105.8	368.7	28.7
17	(VUU)	1.80	104.7	368.7	28.4
125	(BGL)	6.33	98.9	368.7	26.8
375	(BGL)	4.14	92.6	368.7	25.1
115	(BGL)	6.33	88.2	368.7	23.9
7	(WSU)	1.90	85.2	368.7	23.1
311	(BGL)	6.69	82.8	368.7	22.5
25	(TTV)	9.94	82.3	368.7	22.3
29	(TTV)	9.94	78.8	368.7	21.4
9	(VUU)	1.80	77.9	368.7	21.1

0 Schnitte mit Spannungsuerschreitungen

(*)

EXTRAKT DER SPANNUNGSANALYSE NACH EN 13480

Nachweis 03 Staendige und gelegentliche Lasten (S2)
 Qx,MiA,MoA,MtA aus Lastfall Gewicht
 Qx,MiB,MoB,MtB aus Lastfall Schnee

Bauteile mit maximaler Spannungsausnutzung

Pkt		i	Errechn. Spannung (N/mm2)	Zulaess. Spannung (N/mm2)	Aus- nutzung (%)
361	(TTU)	19.54	70.8	146.4	48.4
35	(TTV)	9.94	41.7	146.4	28.5
25	(TTV)	9.94	40.7	146.4	27.8
49	(TTV)	9.94	40.4	146.4	27.6
57	(TTV)	9.94	39.7	146.4	27.1
39	(TTV)	9.94	34.8	146.4	23.7
29	(TTV)	9.94	34.2	146.4	23.3
53	(TTV)	9.94	34.0	146.4	23.2
23	(TTV)	9.94	32.5	146.4	22.2
43	(TTV)	9.94	31.9	146.4	21.8
113	(VUU)	1.80	31.4	146.4	21.4
115	(BGL)	6.33	30.6	146.4	20.9
119	(VUU)	1.80	27.9	146.4	19.1
125	(BGL)	6.33	25.8	146.4	17.7
189	(VUU)	1.80	24.1	146.4	16.5
117	(BGL)	6.33	18.5	146.4	12.6
95	(VUU)	1.80	16.4	146.4	11.2
81	(BGL)	6.33	15.3	146.4	10.4
79	(BGL)	6.33	15.2	146.4	10.4
85	(BGL)	6.33	15.1	146.4	10.3
353	(BGL)	6.69	14.5	146.4	9.9
109	(VUU)	1.80	13.7	146.4	9.4
69	(VUU)	1.80	13.5	146.4	9.2
137	(BGL)	6.33	12.9	146.4	8.8
13	(VUU)	1.80	12.4	146.4	8.4
89	(BGL)	6.33	12.2	146.4	8.4
83	(VUU)	1.80	12.2	146.4	8.3
67	(VUU)	1.80	11.8	146.4	8.0
127	(VUU)	1.80	11.6	146.4	7.9
93	(VUU)	1.80	11.3	146.4	7.7

0 Schnitte mit Spannungseberschreitungen

(*)

EXTRAKT DER SPANNUNGSANALYSE NACH EN 13480

Nachweis 04 Staendige und gelegentliche Lasten (S2)
 Qx,MiA,MoA,MtA aus Lastfall Gewicht
 Qx,MiB,MoB,MtB aus Lastfall Wind-XY

Bauteile mit maximaler Spannungsausnutzung

Pkt		i	Errechn. Spannung (N/mm2)	Zulaess. Spannung (N/mm2)	Aus- nutzung (%)
361	(TTU)	19.54	134.8	146.4	92.0
35	(TTV)	9.94	44.3	146.4	30.2
25	(TTV)	9.94	44.2	146.4	30.2
49	(TTV)	9.94	43.5	146.4	29.7
57	(TTV)	9.94	39.7	146.4	27.1
39	(TTV)	9.94	36.7	146.4	25.0
29	(TTV)	9.94	36.2	146.4	24.7
23	(TTV)	9.94	36.2	146.4	24.7
53	(TTV)	9.94	33.9	146.4	23.1
43	(TTV)	9.94	33.4	146.4	22.8
115	(BGL)	6.33	31.3	146.4	21.3
113	(VUU)	1.80	31.0	146.4	21.2
79	(BGL)	6.33	30.1	146.4	20.5
119	(VUU)	1.80	29.0	146.4	19.8
125	(BGL)	6.33	28.7	146.4	19.6
189	(VUU)	1.80	26.6	146.4	18.1
95	(VUU)	1.80	25.1	146.4	17.1
85	(BGL)	6.33	23.6	146.4	16.1
117	(BGL)	6.33	21.2	146.4	14.5
353	(BGL)	6.69	20.3	146.4	13.8
81	(BGL)	6.33	19.5	146.4	13.3
89	(BGL)	6.33	18.7	146.4	12.7
69	(VUU)	1.80	16.6	146.4	11.3
109	(VUU)	1.80	14.1	146.4	9.6
83	(VUU)	1.80	13.9	146.4	9.5
359	(BGL)	6.69	13.6	146.4	9.3
127	(VUU)	1.80	13.3	146.4	9.1
137	(BGL)	6.33	13.1	146.4	9.0
13	(VUU)	1.80	13.0	146.4	8.9
5	(BGL)	7.94	12.8	146.4	8.7

0 Schnitte mit Spannungsuerschreitungen

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