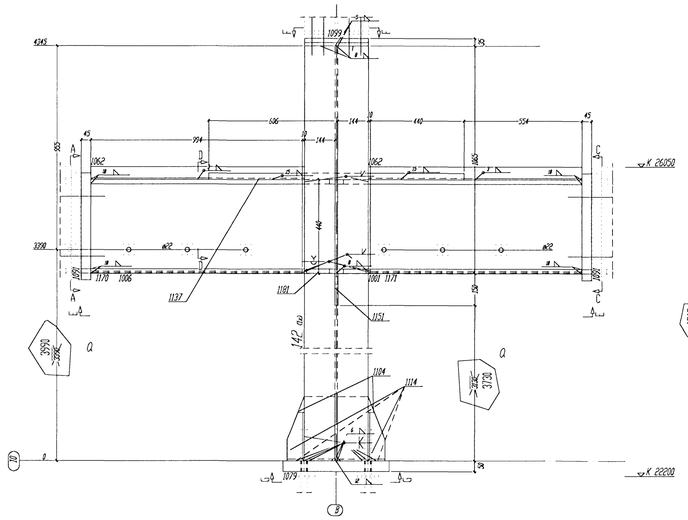
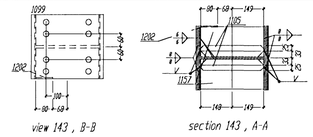
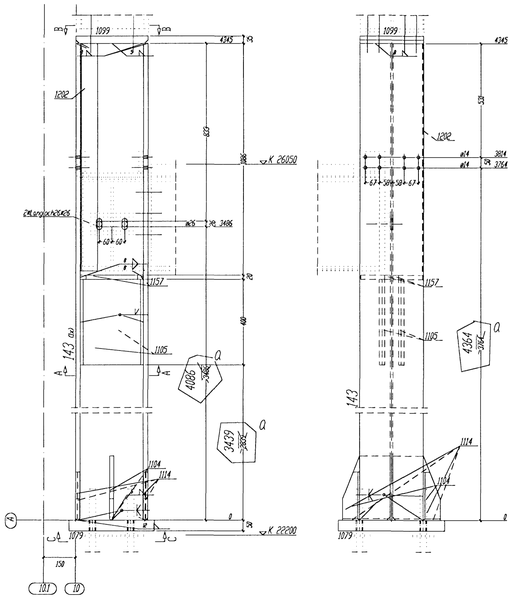


bill of material for 1 Ship- pos. 142 total 1 x done

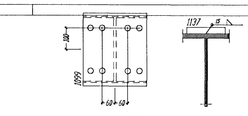
Nr.	Trf	pos.	designation	qty	profil	quality	length	weight	Rem.
1	A	142	TRAGER	1	HEB340	S235J0/J2	4345	534,83	Q
2	A	1001	TRAGER	1	HEA450	S355J0/J2	1148	168,12	
3	A	1006	TRAGER	1	HEA450	S355J0/J2	1148	168,12	
4	A	1062		2	L60X6	S235J0/J2	1004	10,88	
5	A	1079	TRAGER	1	BL50X401	S355J0/J2	508	78,78	
6	A	1091	PLATTE	2	BL45X340	S355J0/J2	508	109,11	
7	A	1099	PLATTE	1	BL25X308	S235J0/J2	340	28,92	
8	A	1104	TRAGER	2	BL20X308	S235J0/J2	224	21,12	
9	A	1114	TRAGER	4	BL20X925	S235J0/J2	88	11,38	
10	A	1137	TRAGER	1	BL30X198	S355J0/J2	1098	58,87	
11	A	1151	TRAGER	1	BL15X158	S235J0/J2	98	1,59	
12	A	1178	TRAGER	1	BL20X128	S355J0/J2	1039	19,57	
13	A	1171	TRAGER	1	BL20X128	S355J0/J2	1039	19,57	
14	A	1181	TRAGER	1	FL100X419	S235J0/J2	298	4,48	
total weight (kg)								126918	1342,47 Q
Shipping dimensions (H x B x L): 470 x 2398 x 4438									

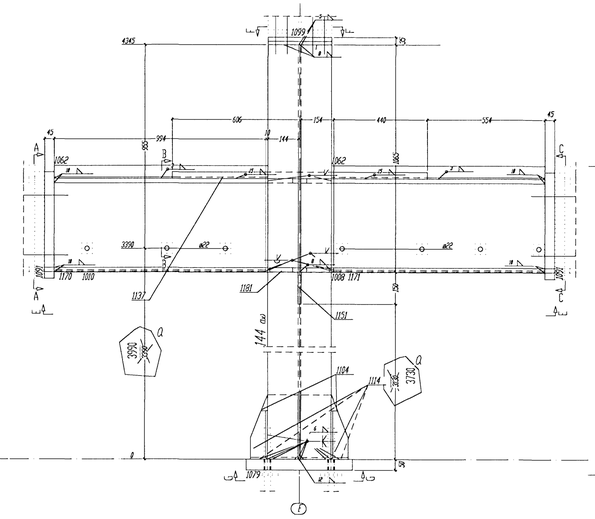


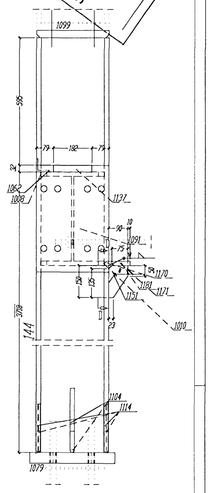


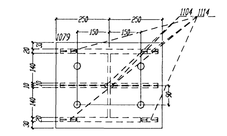
bill of material for 1 Ship- pos. 143 total 1 x done

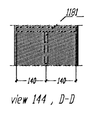
Nr.	Trf	pos.	designation	qty	profil	quality	length	weight	Rem.
1	A	143	TRAGER	1	HEB340	S235J0/J2	4345	534,83	Q
2	A	1079	TRAGER	1	BL50X401	S355J0/J2	508	78,78	
3	A	1099	PLATTE	1	BL25X308	S235J0/J2	340	28,92	
4	A	1104	TRAGER	2	BL20X308	S235J0/J2	224	21,12	
5	A	1105	TRAGER	2	BL25X597	S235J0/J2	498	46,63	
6	A	1114	TRAGER	4	BL20X925	S235J0/J2	88	11,38	
7	A	1157	RIPPE	6	BL20X740	S235J0/J2	297	13,86	
8	A	1282		1	FL80X6	S235J0/J2	1966	4,82	
total weight (kg)								785,85	1954,68 Q
Shipping dimensions (H x B x L): 470 x 408 x 5108 x 4438									

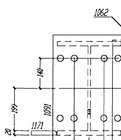


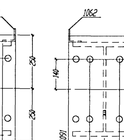






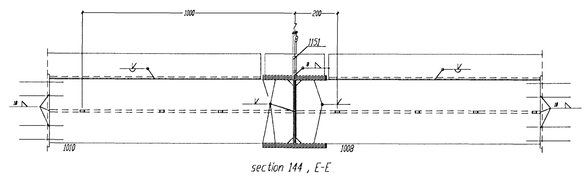


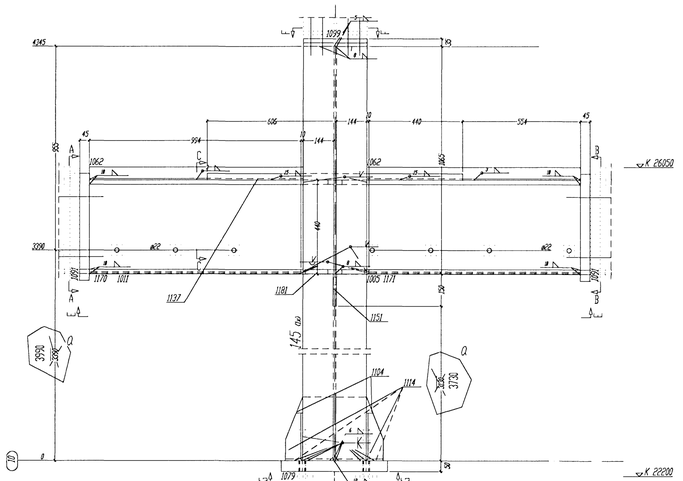




bill of material for 1 Ship- pos. 144 total 1 x done

Nr.	Trf	pos.	designation	qty	profil	quality	length	weight	Rem.
1	A	144	TRAGER	1	HEB340	S235J0/J2	4345	534,83	Q
2	A	1008	TRAGER	1	HEA450	S355J0/J2	1148	168,12	
3	A	1008	TRAGER	1	HEA450	S355J0/J2	1148	168,12	
4	A	1062		2	L60X6	S235J0/J2	1004	10,88	
5	A	1079	TRAGER	1	BL50X401	S355J0/J2	508	78,78	
6	A	1091	PLATTE	2	BL45X340	S355J0/J2	508	109,11	
7	A	1099	PLATTE	1	BL25X308	S235J0/J2	340	28,92	
8	A	1104	TRAGER	2	BL20X308	S235J0/J2	224	21,12	
9	A	1114	TRAGER	4	BL20X925	S235J0/J2	88	11,38	
10	A	1137	TRAGER	1	BL30X198	S355J0/J2	1098	58,87	
11	A	1151	TRAGER	1	BL15X158	S235J0/J2	98	1,59	
12	A	1178	TRAGER	1	BL20X128	S355J0/J2	1039	19,57	
13	A	1171	TRAGER	1	BL20X128	S355J0/J2	1039	19,57	
14	A	1181	TRAGER	1	FL100X419	S235J0/J2	298	4,48	
total weight (kg)								126918	1342,47 Q
Shipping dimensions (H x B x L): 470 x 2398 x 4438									





bill of material for 1 Ship- pos. 145 total 1 x done

Nr.	Trf	pos.	designation	qty	profil	quality	length	weight	Rem.
1	A	145	TRAGER	1	HEB340	S235J0/J2	4345	534,83	Q
2	A	1005	TRAGER	1	HEA450	S355J0/J2	1148	168,12	
3	A	1001	TRAGER	1	HEA450	S355J0/J2	1148	168,12	
4	A	1062		2	L60X6	S235J0/J2	1004	10,88	
5	A	1079	TRAGER	1	BL50X401	S355J0/J2	508	78,78	
6	A	1091	PLATTE	2	BL45X340	S355J0/J2	508	109,11	
7	A	1099	PLATTE	1	BL25X308	S235J0/J2	340	28,92	
8	A	1104	TRAGER	2	BL20X308	S235J0/J2	224	21,12	
9	A	1114	TRAGER	4	BL20X925	S235J0/J2	88	11,38	
10	A	1137	TRAGER	1	BL30X198	S355J0/J2	1098	58,87	
11	A	1151	TRAGER	1	BL15X158	S235J0/J2	98	1,59	
12	A	1178	TRAGER	1	BL20X128	S355J0/J2	1039	19,57	
13	A	1171	TRAGER	1	BL20X128	S355J0/J2	1039	19,57	
14	A	1181	TRAGER	1	FL100X419	S235J0/J2	298	4,48	
total weight (kg)								126918	1342,47 Q
Shipping dimensions (H x B x L): 470 x 2398 x 4438									

Fyrir hönd Conís ehf, kt. 600105-1400 staðfestist að teikning þessi hefur verið yfirfarin. Teikningin er í samræmi við íslenska staðla og reglugerðir. 28/9'07

Nafn Kennitala 130557-4139

Tolerance for welded constructions According to DIN 8570, Pt.1+3/3+F.10.87

Welding (W P S) according to DIN-EN 288 - 2

All unmarked welds to be Fillet continuous a=4mm thick, not greater than 0.7 d of the thinner element

The material for cap plates ≥20 mm thick to be examined for laminations

Required torques,prestressing forces and forced tension angles according to DIN 18800 Pt. 7, 05.83

bolts	1	2	3	4	5	6
	Required tightening torque Tv	Prestressing of HV bolts class 10.9 according to: a) Torque technique: Required grip length, rolled steel section / sheet pack t [mm]		b) Rotation technique: Rotation angle, bolt elongation, nut rotation	Required tightening torque	a) Angle of rotation technique: Grip length t [mm]		Bolt, nut, washer
	[Nm]	[Nm]	[kN]	[kN]	[Nm]	[kN]		
M16	180	200	125	140	180	60	0,5 x 1,0	140	125
M20	350	390	195	220	350	60	0,5 x 1,0	170	195
M22	470	530	240	265	470	60	0,5 x 1,0	190	240
M24	610	680	280	315	610	60	0,5 x 1,0	210	280
M27	900	1000	365	410	900	60	0,5 x 1,0	240	365
M30	1220	1350	445	500	1220	60	0,5 x 1,0	270	445
M36	2130	2370	650	730	2130	60	0,5 x 1,0	320	650

a) Due to the great dependence of the Nm value on the type of thread lubricant adhere to the bolt manufacturer's recommendations.
b) Independently on the lubricant of the threads and surfaces of bolts and nuts. DASTONIT for bolt galvanized HV bolts use values from column 5.

BIURO INZYNIERSKIE
Marek i Janina MUCHA
Osiny, ul. Opolska 30a, 46-070 Komprachcice tel.077-46 46 757

	DATE	NAME	SIGNATURE
Designed by	28.09.07	MM/JM	
Drawn by			
Checked by			
Verified by			

0	ISSUED WITH DRAWING	28.09.07	MM/JM
INDEX	CHANGES	DATE	ME

SCALE

Pos. 142-145

DESIG.

TJARNARVELLIR 11
Steel Office part

DRAWING NO.

DRG 115 a

SHEET

1