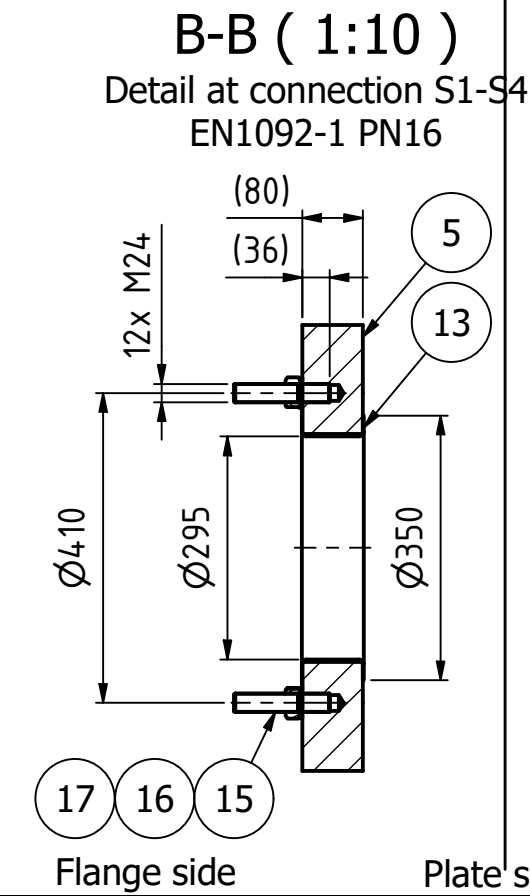
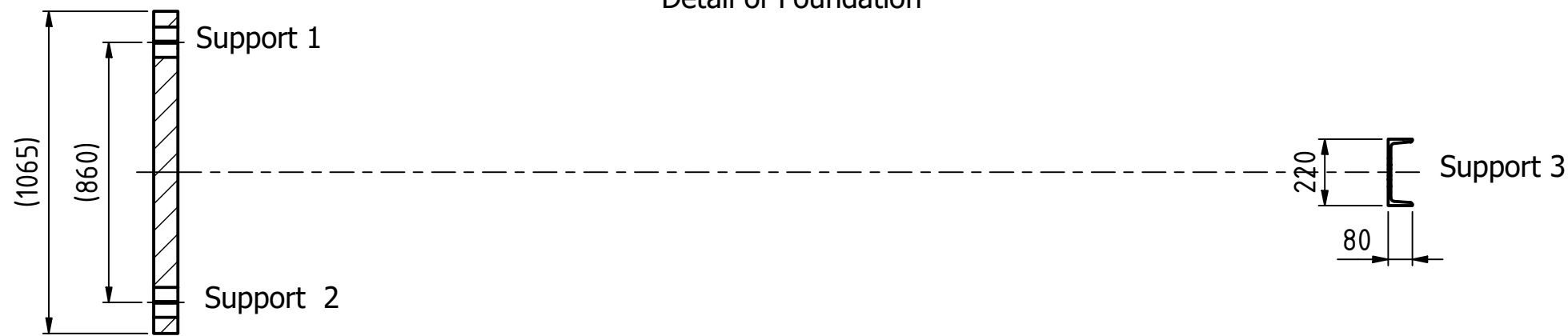


A-A (1:20)
Detail of Foundation

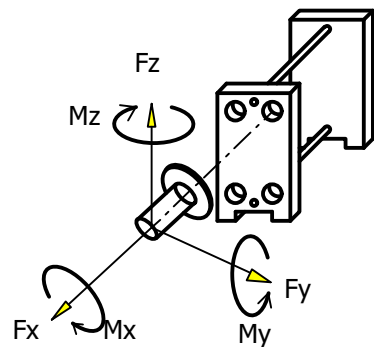
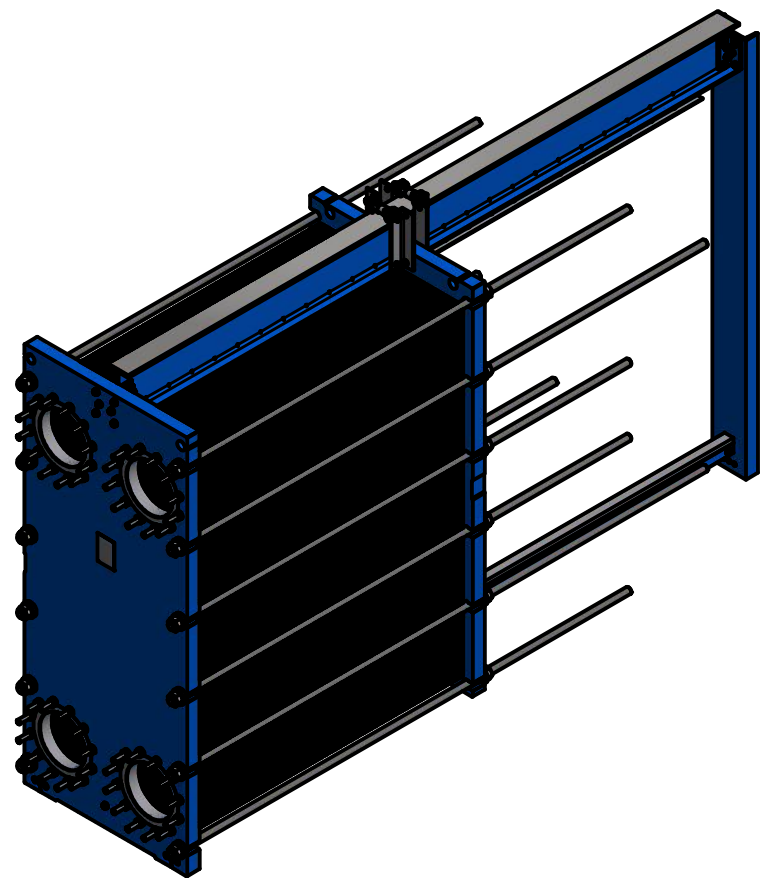


Foundation load table (N)			
Load condition	Support 1	Support 2	Support 3
Fx Piping	±1189	±1189	±1189
Fx Static	0	0	0
Fx Summary	±1189	±1189	±1189
Fy Piping	±2378	±2378	±1188
Fy Static	0	0	0
Fy Summary	±2378	±2378	±1188
Fz Piping	±13709	±13709	±2234
Fz Static	-35317	-35317	-27088
Fz Summary (Tension)	-21608	-21608	-24853
Fz Summary (Compression)	-49026	-49026	-29322

Note: A negative load is defined as compression on the foundation.

REV	DESCRIPTION
2	Changed according to customer comments.

Customer Information		
CLIENT:	Seen Technologie Sp. z o. o.	
PO No:	ZL 15/1381/2022/4.2.5	
Project Name :	-	
Item no.:	-	
PHE Performance		
	Hot in/out (Side1)	Cold in/out (Side2)
Fluid	Water	Water
Inlet/Outlet temperature	51.40 / 43.50 °C	42.00 / 49.90 °C
Flow rate	770.00 m³/h	770.00 m³/h
Heat load	6991 kW	
Total heat transfer area	826.38 m²	
Calculated pressure drop	53.95 kPa	49.73 kPa
Channel arrangement	235HS+0HD	141HS+94HD
Connection material	1.4547	1.4547
Connection diameter	DN300	DN300
Connection standard	EN1092-1 PN16	EN1092-1 PN16
Connection location	S1/S3	S2/S4
MAWP/Test Pressure	1.60 / 2.29 MPa	1.60 / 2.29 MPa
MAX. AWT / MIN. AWT	100.00 / -10.00 °C	100.00 / -10.00 °C
Weight empty / flooded	7037 / 9387 kg.	
[Incl. 10% Exp.]	[7376 / 9961 kg.]	
General Information		
xThis is a customer adapted design in accordance with PED 2014/68/EU module H1, EN 13445:2014.		
x Ped Approval No. 11-293027-02.		
x Installation / maintenance: Recommended minimum clearance for future maintenance is 1200mm on both sides.		
Paint:	S2 Epoxy RAL 5012	
X Issued for Approval	2021-12-09 KRP, 2022-01-24 KRP, 2022-02-09 PB	
X Issued for Working	2021-12-09 KRP, 2022-01-24 KRP, 2022-02-09 PB	
- Issued for Final	-	



Nozzle load acc. to API662 Standard Service - Table 1 PN20			
Nozzle size	Fx (N)	Fy (N)	Fz (N)
DN 300	1784	1784	1784
/NPS 12	Mx (Nm)	My (Nm)	Mz (Nm)
	2471	2471	2471

21	1	BULK FOR STEEL SKID MOUNTING FIT FC (NOT SHOWN)	-	-	-
20	1	SKID STANDING (NOT SHOWN)	CS	2650~C+4300	3-7558
19	1	GX-145P BULK ASSEMBLY FCR FZV (NOT SHOWN)	-	-	-
18	1	GUIDING BAR PROTECTION	14401	5MM (IPE-270)	3-5980
17	48	NUT	8 FZV	M24	-
16	48	WASHER	CS FZV	Ø25/40x3	-
15	48	STUD BOLT	8.8/B7/L7/FZV	M24x90(126)	-
14	1	DATA PLATE TRANTR PHE ENGLISH 1A	14301	-	4-524
13	4	PORT LINER	14547/254 SMO	DN300	4-2674
12	1	ROLLER ASSEMBLY FCR FZV (REINFORCED)	-	-	3-7302
11	1	LOWER GUIDING BAR	CS/14301	L=4000	3-439
10	1	UPPER GUIDE BAR (REINFORCED)	CS /14301	L=4000	3-7300
9	8	TIGHTENING BOLT ASSEMBLY	8.8/B7 FZV	M39 L=3000	-
8	4	TIGHTENING BOLT ASSEMBLY	8.8/B7 FZV	M39 L=3500	-
7	1	END SUPPORT WITH EARTH LUG	CS	UNP-220x2490	12066
6	1	MOVABLE COVER WITHOUT CONN.	P355GH	DN300 PN16	10141
5	1	FIXED COVER WITH S1-S4 CONN.	P355GH	DN300 PN16	10139
4	470	GASKET GXD-145 FULL THICKNESS	NBR (P) LP	-	-
3	2	GASKET GX-145 HALF THICKNESS	NBR (P)	-	-
2	1	HEAT TRANSFER PLATE (H 0000)	14547/254 SMO	T=0.5	-
1	470	HEAT TRANSFER PLATE (H 1234)	14547/254 SMO	T=0.5	-
Def.no	Qty	Description	Material	Dimension	Dwg No.
General tolerances/Standard		View	Scale	General assembly drawing	
ISO 2768 - cL		E	1:20		
		TRANTER		Revised	Sheet
		PHE/GXD-145PR		Designer	1 / 1
		Assembly Drawing		Drawn	Project
		Mfg. No: 285512 Line 1,2		Date	J
				Checked by	Size
				AL	A2
				Approved by	Revision
				PB	2
				2022-02-09	
				KSU	
				16435	