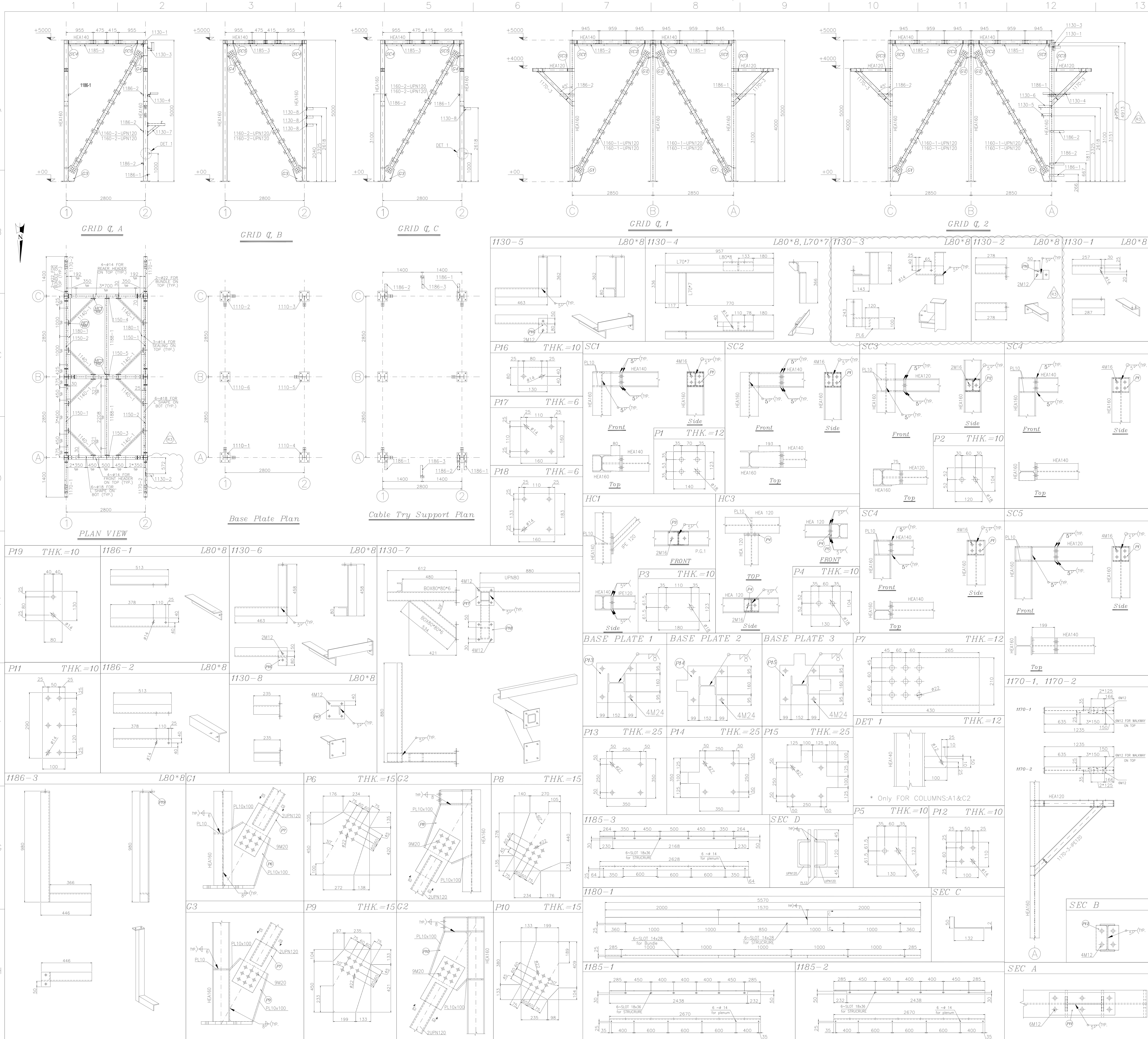

TOTAL UNITS =2											
PART LIST FOR 1 UNIT											
PART NO.	DESCRIPTION	PROFILE	DIMENTION DIA (mm)	LENGTH (mm)	WIDTH (mm)	THK (mm)	MATERIAL	QTY.	UNIT WEIGHT (kg)	TOTAL WEIGHT (kg)	REV.
1110-1	COLUMN ASS.	HEA160		5000	-	-	ST-37(PAINTED.)	1	247.3	247.3	
1110-2	COLUMN ASS.	HEA160		5000	-	-	ST-37(PAINTED.)	1	246.8	246.8	
1110-3	COLUMN ASS.	HEA160		5000	-	-	ST-37(PAINTED.)	1	251.8	251.8	
1110-4	COLUMN ASS.	HEA160		5000	-	-	ST-37(PAINTED.)	1	249.8	249.8	
1110-5	COLUMN ASS.	HEA160		5000	-	-	ST-37(PAINTED.)	1	271.4	271.4	
1110-6	COLUMN ASS.	HEA160		5000	-	-	ST-37(PAINTED.)	1	269.6	269.6	
1130-1	PIPE SUPPORT ASS.	L80*8		257	-	-	ST-37(PAINTED.)	1	2.8	2.8	
1130-2	PIPE SUPPORT ASS.	L80*8		278	-	-	ST-37(PAINTED.)	1	3.4	3.4	
1130-3	PIPE SUPPORT ASS.	L80*8		282	223	-	ST-37(PAINTED.)	1	6.9	6.9	
1130-4	PIPE SUPPORT ASS.	L80*8 , L70*7		957	336	-	ST-37(PAINTED.)	1	11.9	11.9	
1130-5	PIPE SUPPORT ASS.	L80*8		463	362	-	ST-37(PAINTED.)	1	8.7	8.7	
1130-6	PIPE SUPPORT ASS.	L80*8		463	458	-	ST-37(PAINTED.)	1	9.6	9.6	
1130-7	PIPE SUPPORT ASS.	BOX80*80*8, UPN80		800	612	-	ST-37(PAINTED.)	1	25.2	25.2	
1130-8	PIPE SUPPORT ASS.	L80*8		235	-	-	ST-37(PAINTED.)	4	3.4	13.6	
1140-1	HORIZENTAL BRACING ASS.	IPE120		1358	-	-	ST-37(PAINTED.)	8	16.4	131.2	
1150-1	BEAM ASS.	HEA140		2393	-	-	ST-37(PAINTED.)	2	67.5	135	
1150-2	BEAM ASS.	HEA140		2393	-	-	ST-37(PAINTED.)	2	67.5	135	
1150-3	BEAM ASS.	HEA140		2437	-	-	ST-37(PAINTED.)	1	71.1	71.1	
1150-4	BEAM ASS.	HEA140		2437	-	-	ST-37(PAINTED.)	1	71.1	71.1	
1150-5	BEAM ASS.	HEA140		2437	-	-	ST-37(PAINTED.)	1	75.8	75.8	
1160-1	BRACING ASS.	UPN120		4934	-	-	ST-37(PAINTED.)	8	97.2	777.6	
1160-2	BRACING ASS.	UPN120		4914	-	-	ST-37(PAINTED.)	6	96.9	581.4	
1170-1	WALKWAY SUPPORT ASS.	HEA120		1235	-	-	ST-37(PAINTED.)	2	27.9	55.8	
1170-2	WALKWAY SUPPORT ASS.	HEA120		1235	-	-	ST-37(PAINTED.)	2	27.9	55.8	
1170-3	WALKWAY SUPPORT ASS.	IPE120		1439	-	-	ST-37(PAINTED.)	4	17.5	70	
1180-1	SEALING ASS.	PLATE		5570	182	2	ST-37(PAINTED.)	2	15.7	31.4	
1185-1	L SHAPE PLENUM	L70*7		2670	-	-	ST-37(PAINTED.)	2	19.7	39.4	
1185-2	L SHAPE PLENUM	L70*7		2670	-	-	ST-37(PAINTED.)	2	19.7	39.4	
1185-3	L SHAPE PLENUM	L70*7		2628	-	-	ST-37(PAINTED.)	4	19.4	77.6	
1186.1	CABLE TRY SUPPORT ASS.	L80*8		513	-	-	ST-37(PAINTED.)	3	5	15	
1186.1	CABLE TRY SUPPORT ASS.	L80*8		513	-	-	ST-37(PAINTED.)	4	5	20	
1186.1	CABLE TRY SUPPORT ASS.	L80*8		980	446	-	ST-37(PAINTED.)	2	13.7	27.4	
1188-1	TIE ROD BEAM ASS.	HEA120		2690	-	-	ST-37(PAINTED.)	2	55.2	110.4	
TOTAL WEIGTH (kg)										4139.2	

LIST OF BOLTS & NUTS & WASHERS FOR 1 UNIT											
PART NO.	DESCRIPTION	PROFILE	DIMENTION DIA (mm)	LENGTH (mm)	WIDTH (mm)	THK (mm)	MATERIAL	QTY.	UNIT WEIGHT (kg)	TOTAL WEIGHT (kg)	REV.
1190-1	for BEAM ASS.	-	M16	50	-	-	DIN 933-8.8 (DACROMET.)	56	-	-	
1190-2		-	M16		-	-	DIN 934-8 (DACROMET.)	56	-	-	
1190-3		-	A17		-	-	DIN 125A-ST (DACROMET.)	112	-	-	
1190-4	for BRACING ASS.		M20	70			DIN 933-8.8 (DACROMET.)	126			
1190-5			M20				DIN 934-8 (DACROMET.)	126			
1190-6			A21				DIN 125A-ST (DACROMET.)	252			
1190-7		-	M16	45	-	-	DIN 933-8.8 (DACROMET.)	154	-	-	
1190-8		-	M16		-	-	DIN 934-8 (DACROMET.)	154	-	-	
1190-9		-	A17		-	-	DIN 125A-ST (DACROMET.)	308	-	-	
1190-10	for HORIZENTAL BRACING ASS.	-	M16	45	-	-	DIN 933-8.8 (DACROMET.)	32	-	-	
1190-11		-	M16		-	-	DIN 934-8 (DACROMET.)	32	-	-	
1190-12		-	A17		-	-	DIN 125A-ST (DACROMET.)	64	-	-	
1190-13	for WALKWAY SUPPORT ASS.	-	M16	45	-	-	DIN 933-8.8 (DACROMET.)	8	-	-	
1190-14		-	M16		-	-	DIN 934-8 (DACROMET.)	8	-	-	
1190-15		-	A17		-	-	DIN 125A-ST (DACROMET.)	16	-	-	
1190-16		-	M12	40	-	-	DIN 933-8.8 (DACROMET.)	40	-	-	
1190-17		-	M12		-	-	DIN 934-8 (DACROMET.)	40	-	-	
1190-18		-	A13		-	-	DIN 125A-ST (DACROMET.)	80	-	-	
1190-19	for TIE ROD BEAM ASS.	-	M16	45	-	-	DIN 933-8.8 (DACROMET.)	8	-	-	
1190-20		-	M16		-	-	DIN 934-8 (DACROMET.)	8	-	-	
1190-21		-	A17		-	-	DIN 125A-ST (DACROMET.)	16	-	-	
1190-22	for PIPE SUPPORT ASS.	-	M12	40	-	-	DIN 933-8.8 (DACROMET.)	36	-	-	
1190-23		-	M12		-	-	DIN 934-8 (DACROMET.)	36	-	-	
1190-24		-	A13		-	-	DIN 125A-ST (DACROMET.)	72	-	-	
1190-25	for CABLE TRY SUPPORT ASS.	-	M12	40	-	-	DIN 933-8.8 (DACROMET.)	18	-	-	
1190-26		-	M12		-	-	DIN 934-8 (DACROMET.)	18	-	-	
1190-27		-	A13		-	-	DIN 125A-ST (DACROMET.)	36	-	-	
1190-28	for L SHAPE PLENUM ASS.	-	M16	45	-	-	DIN 933-8.8 (DACROMET.)	48	-	-	
1190-29		-	M16		-	-	DIN 934-8 (DACROMET.)	48	-	-	
1190-30		-	A17		-	-	DIN 125A-ST (DACROMET.)	96	-	-	
1190-31	for SEALINGASS.	-	M12	30	-	-	DIN 933-8.8 (DACROMET.)	12	-	-	
1190-32		-	M12		-	-	DIN 934-8 (DACROMET.)	12	-	-	
1190-33		-	A13		-	-	DIN 125A-ST (DACROMET.)	24	-	-	

NOTES:

1- ALL DIMENSIONS ARE IN MILLIMETER .

2-ALL PARTS SHALL PAINTED ACCORDING TO EI027-DMF-VD-QC-PRO-024

3- BOLTS & NUTS & WASHERS SHALL BE DACROMET IN ACCORDANCE WITH ASTM - A153 OR EN ISO 1461

4- WELD: CONTINUOUS WELD.
MIN. HEIGHT OF FILLET WELD =0.7 x MIN. THK.
< MAX. THK. , IF MAX.THK.< 7mm
< MAX. THK.-1.5 , IF MAX.THK.> 7mm

TOLERANCES					
THE FOLLOWING VALUES ARE APPLICABLE TO THE DIMENSIONS THAT ARE NOT PROVIDED WITH TOLERANCES ON DRAWING					
NOMINAL DIMENSIONS PER MILLIMETER STEPS	0 200	201 800	801 2000	2001 5000	5001 & +
TOLERANCES ±	2	3	5	6	7
TOLERANCE ON CENTER DISTANCES ± 1.5					
THE TOLERANCES SHOWN HERE ARE NOT CUMULATIVE					

General Arrangement Drawing	1158-A01-1000-00	EI027-DMF-VD-ME-DWG-003
Bundle Frame Drawing	1158-A01-2400-00	EI027-DMF-VD-ME-DWG-007
Plenum Drawing	1158-A01-5110-00	EI027-DMF-VD-ME-DWG-011
Header Walkway Drawing	1158-A01-1200-00	EI027-DMF-VD-ST-DWG-014
Ladder Drawing	1158-A01-1520-00	EI027-DMF-VD-ST-DWG-015

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY	APPROVED BY	FINAL APPROVED BY
R3	12/30/2024	ISSUED FOR APPROVAL	J.M.	J.B.L	J.B.L	A.GHZ
R2	12/28/2024	ISSUED FOR APPROVAL	J.M.	J.B.L	J.B.L	A.GHZ
R1	11/13/2024	ISSUED FOR APPROVAL	J.M.	J.B.L	J.B.L	A.GHZ
R0	09/01/2024	ISSUED FOR APPROVAL	J.M.	J.B.L	J.B.L	A.GHZ

CLIENT: ENER TEKNOLOJI

CONTRACTOR:

PROJECT :
AIR COOLER FOR
Toase-ehe Park Sanati Gohar Ofogh Petrochemical Co.
Steel Structure Drawing
1158-A01-1100-00

dtt Damafin thermal technology
Factory : Km 14 special Karaj road

DWG. NO. EI027-DMF-VD-ST-DWG-013

SCALE : NTS | SIZE : A1 | REV. : R3

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