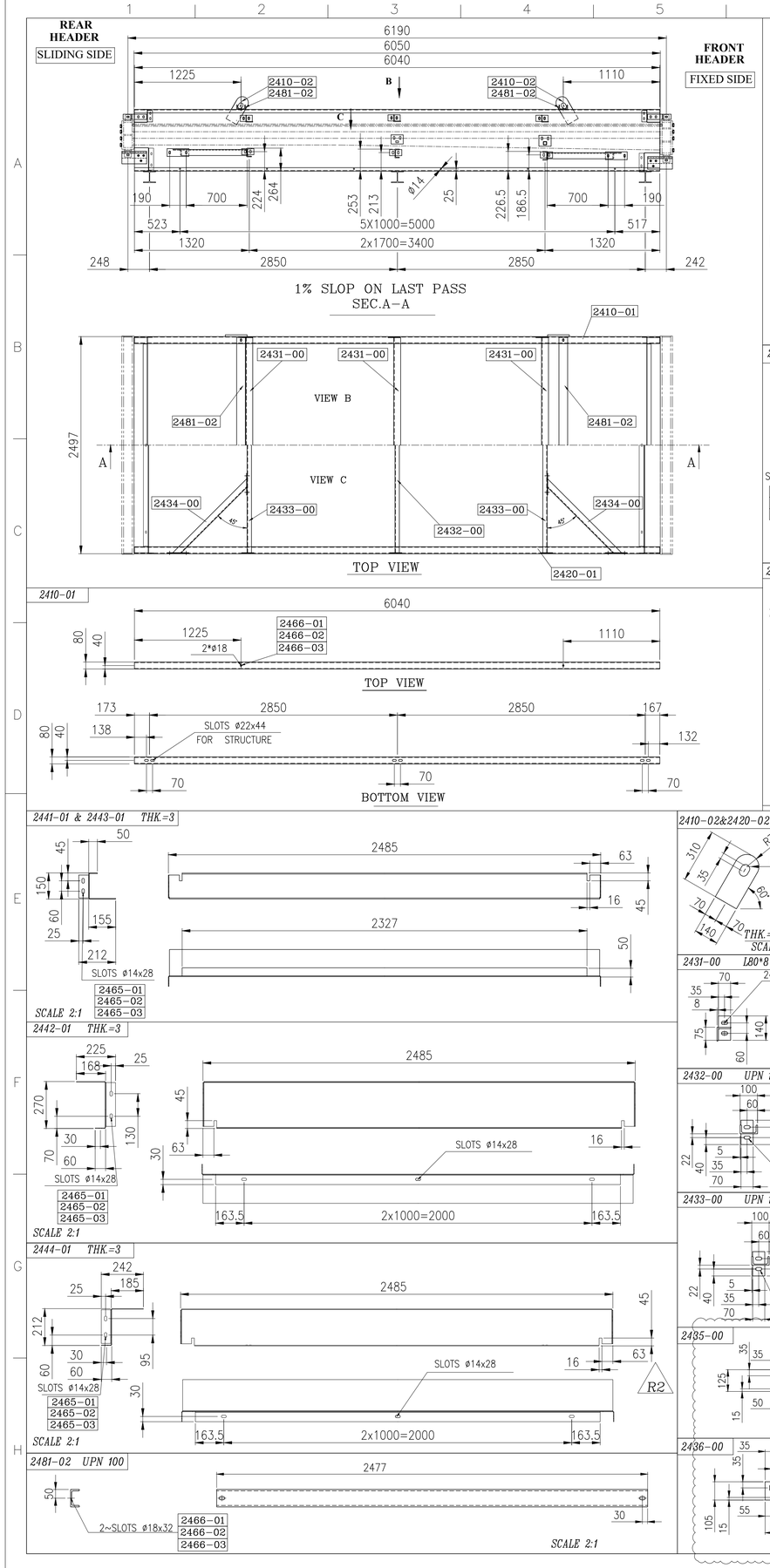

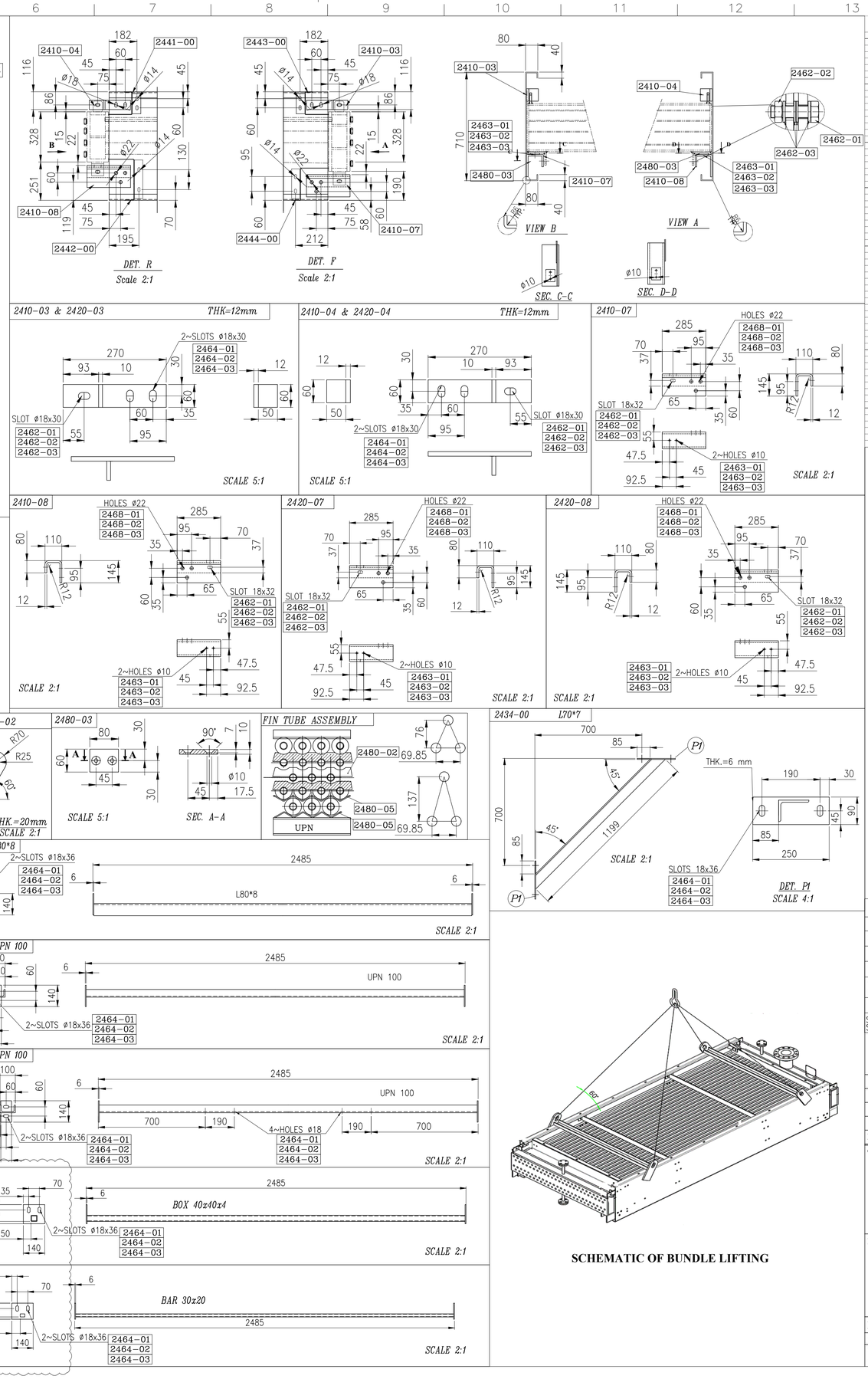

PART NO.	DESCRIPTION	DIMENSIONS DIA. (mm)	LENGTH (mm)	WIDTH (mm)	THIK. (mm)	MATERIAL	QTY.	UNIT WEIGHT (Kg)	TOTAL WEIGHT (Kg)	STD DWG	REV.
2400-00	***BUNDLE FRAME INCLIDING :***	-	-	-	-	-	**2**	***1091***	***2181***	-	-
2410-00	***LEFT SIDE INCLIDING :***	-	-	-	-	-	-	***289***	-	-	-
2410-01	PLATE	-	6040	902	6	ST-37(GALV.)	1	257	257	-	-
2410-02	PLATE (LIFTING LUG)	-	310	140	20	ST-37(GALV.)	2	7	14	-	-
2410-03	FRONT TRANSPORTATION HEADER SUPPORT (ASSEMBLY)	-	270	60	12	ST-37(GALV.)	1	2	2	-	-
2410-04	REAR TRANSPORTATION HEADER SUPPORT (ASSEMBLY)	-	270	60	12	ST-37(GALV.)	1	2	2	-	-
2410-07	FRONT HEADER SUPPORT	-	285	287	12	ST-37(GALV.)	1	8	8	-	-
2410-08	REAR HEADER SUPPORT	-	285	287	12	ST-37(GALV.)	1	8	8	-	-
2420-00	***RIGHT SIDE INCLIDING :***	-	-	-	-	-	-	***289***	-	-	-
2420-01	PLATE	-	6040	902	6	ST-37(GALV.)	1	257	257	-	-
2420-02	PLATE (LIFTING LUG)	-	310	140	20	ST-37(GALV.)	2	7	14	-	-
2420-03	FRONT TRANSPORTATION HEADER SUPPORT (ASSEMBLY)	-	270	60	12	ST-37(GALV.)	1	2	2	-	-
2420-04	REAR TRANSPORTATION HEADER SUPPORT (ASSEMBLY)	-	270	60	12	ST-37(GALV.)	1	2	2	-	-
2420-07	FRONT HEADER SUPPORT	-	285	287	12	ST-37(GALV.)	1	8	8	-	-
2420-08	REAR HEADER SUPPORT	-	285	287	12	ST-37(GALV.)	1	8	8	-	-
2430-00	***CROSSPIECES INCLIDING :***	-	-	-	-	-	-	***320***	-	-	-
2431-00	BRACED SUPPORT ANGLE(ASSEMBLY)(L80X8)	-	2485	-	-	ST-37(GALV.)	3	25	75	-	-
2432-00	UPN 100 (ASSEMBLY)	-	2485	-	-	ST-37(GALV.)	1	62	62	-	-
2433-00	UPN 100 (ASSEMBLY)	-	2485	-	-	ST-37(GALV.)	2	62	125	-	-
2434-00	L 70x7 (ASSEMBLY)	-	1199	-	-	ST-37(GALV.)	4	14	58	-	-
2440-00	***AIR SEAL INCLIDING :***	-	-	-	-	-	-	***125***	-	-	-
2441-01	REAR UPPER AIR SEAL	-	2593	343	3	ST-37(GALV.)	1	21	21	-	-
2442-01	REAR LOWER AIR SEAL	-	2593	486	3	ST-37(GALV.)	1	30	30	-	-
2443-01	FRONT UPPER AIR SEAL	-	2593	343	3	ST-37(GALV.)	1	21	21	-	-
2444-01	FRONT LOWER AIR SEAL	-	2593	445	3	ST-37(GALV.)	1	27	27	-	-
2435-00	BOX 40x40x4	-	2593	-	-	ST-37(GALV.)	1	14	14	-	-
2436-00	FLAT 30x20	-	2593	-	-	ST-37(GALV.)	1	12	12	-	-
2460-00	***BOLTS & NUTS INCLIDING :***	-	-	-	-	-	-	-	-	-	-
2462-00	**BOLTS & NUTS FOR FIXING HEADER & TRANSPORTATION :**	-	-	-	-	-	-	-	-	-	-
2462-01	BOLT	M16	70	-	-	DIN933-8.8 (DACROMET)	8	-	-	-	-
2462-02	NUT	M16	-	-	-	DIN934-8 (DACROMET)	8	-	-	-	-
2462-03	WASHER FOR BOLT	A17	-	-	-	DIN125-St. (DACROMET)	32	-	-	-	-
2463-00	**SCREWS & NUTS FOR TEFLON CALE :**	-	-	-	-	-	-	-	-	-	-
2463-01	SCREW	M8	40	-	-	DIN7991-8.8 / 10.9 (DACROMET)	8	-	-	-	R2
2463-02	NUT	M8	-	-	-	DIN934-8 (DACROMET)	8	-	-	-	-
2463-03	WASHER FOR BOLT	A8.4	-	-	-	DIN125-St. (DACROMET)	8	-	-	-	-
2464-00	**BOLTS & NUTS FOR CROSS PIECE TO BUNDLE FRAME :**	-	-	-	-	-	-	-	-	-	-
2464-01	BOLT	M16	40	-	-	DIN933-8.8 (DACROMET)	56	-	-	-	-
2464-02	NUT	M16	-	-	-	DIN934-8 (DACROMET)	56	-	-	-	-
2464-03	WASHER FOR BOLT	A17	-	-	-	DIN125-St. (DACROMET)	112	-	-	-	-
2465-00	**BOLTS & NUTS FOR AIR SEAL :**	-	-	-	-	-	-	-	-	-	-
2465-01	BOLT	M12	40	-	-	DIN933-8.8 (DACROMET)	22	-	-	-	-
2465-02	NUT	M12	-	-	-	DIN934-8 (DACROMET)	22	-	-	-	-
2465-03	WASHER FOR BOLT	A13	-	-	-	DIN125-St. (DACROMET)	44	-	-	-	-
2466-00	**BOLTS & NUTS FOR FIXING BRACE TO BUNDLE FRAME :**	-	-	-	-	-	-	-	-	-	-
2466-01	BOLT	M16	40	-	-	DIN933-8.8 (DACROMET)	4	-	-	-	-
2466-02	NUT	M16	-	-	-	DIN934-8 (DACROMET)	4	-	-	-	-
2466-03	WASHER FOR BOLT	A17	-	-	-	DIN125-St. (DACROMET)	8	-	-	-	-
2467-00	**BOLTS & NUTS FOR BUNDLE FRAMETO STRUCTURE :**	-	-	-	-	-	-	-	-	-	-
2467-01	BOLT	M20	50	-	-	DIN933-8.8 (DACROMET)	12	-	-	-	R2
2467-02	NUT	M20	-	-	-	DIN934-8 (DACROMET)	12	-	-	-	R2
2467-03	WASHER FOR BOLT	A21	-	-	-	DIN125A-ST (DACROMET)	24	-	-	-	R2
2468-00	**BOLTS & NUTS FOR HEADER SUPPORT TO BUNDLE FRAME :**	-	-	-	-	-	-	-	-	-	-
2468-01	BOLT	M20	50	-	-	DIN933-8.8 (DACROMET)	12	-	-	-	-
2468-02	NUT	M20	-	-	-	DIN934-8 (DACROMET)	12	-	-	-	-
2468-03	WASHER FOR BOLT	A21	-	-	-	DIN125-St. (DACROMET)	24	-	-	-	-
2469-00	**BOLTS & NUTS FOR BUNDLE TO STRUCTURE SEALING :**	-	-	-	-	-	-	-	-	-	-
2469-01	BOLT	M12	40	-	-	DIN933-8.8 (DACROMET)	12	-	-	-	R2
2469-02	NUT	M12	-	-	-	DIN934-8 (DACROMET)	12	-	-	-	R2
2469-03	WASHER FOR BOLT	A13	-	-	-	DIN125A-ST (DACROMET)	24	-	-	-	R2
2480-02	FIN TUBE SPACER FOR TUBE ?(TYPE 44)	-	943	32.5	-	ST-37(GALV.)	18	0.497	9	2849	-
2480-03	SLIDING PAD	-	80	60	10	TEFLON WITH 25% GLASS	4	0.3768	2	2845	-
2480-05	CORRUGATEDB STRIP(TYPE1)	-	2477	45	-	ALUMINUM	9	1	5	2810	-
2481-02	UPN 100	-	2477	-	-	ST-37(GALV.)	2	26	53	-	-

NOTES :

1. All dimensions are in milimeters unless otherwise specified.
2. All parts shall be hot dipped galvanized in accordance with ASTM–123
3. Red Color Bolts which are used for fixing headers to side frame , on sliding side shall be removed after erection.
4. Weld: Continuous weld.
   Min. Height of fillet for thk.> 7mm to be welded = 0.8 thk.min
   Min. Height of fillet for thk.< 7mm to be welded = 3.5mm.

TOLERANCES THE FOLLOWING VALUES ARE APPLICABLE TO THE DIMENSIONS THAT ARE NOT PROVIDED WITH TOLERANCES ON DRAWING			
NOMINAL DIMENSIONS PER MILLIMETER STEPS	0 800	801 5000	5001 & +
TOLERANCES	± 1	2	3
TOLERANCE ON CENTER DISTANCES THE TOLERANCES SHOWN HERE ARE NOT CUMULATIVE	± 0.5		

REFERENCE DOCUMENTS

TITLE	VENDOR DOCUMENT NO.	CLIENT DOCUMENT NO.
GENERAL ARRANGEMENT	1158–A01–1000–00	EI027–DMF–VD–ME–DWG–003
TUBE BUNDLE DRAWING	1158–A01–2000–00	EI027–DMF–VD–ME–DWG–005
Steel Structure Drawing	1158–A01–1100–00	EI027–DMF–VD–ST–DWG–013
WELDING PROCEDURE SPECIFICATION (W.P.S.)	1158–A01–0060–00	EI027–DMF–VD–QC–WPS–021
NON DESTRUCTIVE TEST CHECK LIST (N.D.T.)	1158–A01–0070–00	EI027–DMF–VD–QC–PRO–022
Surface Blasting & Painting & Galvanizing Specification & InspectionProcedure	1158–A01–0070–00	EI027–DMF–VD–QC–PRO–024

SCHEMATIC OF BUNDLE LIFTING

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY	APPROVED BY	FINAL APPROVED BY
R2	01/04/2025	ISSUED FOR APPROVAL	SH.S	S.S	J.B.L	A.GHZ
R1	10/07/2024	ISSUED FOR APPROVAL	SH.S	S.S	J.B.L	A.GHZ
R0	08/11/2024	ISSUED FOR APPROVAL	SH.S	S.S	J.B.L	A.GHZ

CLIENT:

CONTRACTOR:

PROJECT :

AIR COOLER FOR

Toase-ehe Park Sanati Gohar Ofogh Petrochemical Co.

BUNDLE FRAME DRAWING

1158-A01-2400-00

DWG. NO. EI027-DMF-VD-ME-DWG-007

SCALE : N.T.S. SIZE : A1 REV. : R2

Damafin thermal technology

Factory : Km 14 special Karaj road

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