



BILL OF MATERIAL					
FOR: HEAT RECOVERY SYSTEM- HEADER DETAILS					
DWG: 3863-T6-119					
ITEM	QTY	DESCRIPTION	WEIGHT (kg)	MAT'L	REMARKS
DETAIL T6-119TGFI-1 (1 REQ'D) AS SHOWN			WT. EA. 3938 kg		
DETAIL T6-119TGFI-2 (1 REQ'D) OPP HAND			WT. EA. 3938 kg		
1	2	PL 8 x 3167 x 8914 LG. (1016 OD)	1774	A36	SEE NOTE 11
2	4	FORMED HEAD: 2:1 ELLIPSOIDAL	70	A36	
1016 O.D. x 8mm THK.					
3	12	PL 5 x 1416 x 3966 LG. (457 OD)	278	A36	SEE NOTE 11
4	4	PL 24 x 152 x 228 LG.	7	A36	CUT
5	12	PL 8 x 610 O.D. x 483 I.D.	9	A36	CUT AND ROLL
6	12	PL 16 x 469 OD	22	A36	
7	4	WT 4 X 9 x 304 LG.	5	SEE MAT'L NOTE	CUT TO 120 DEPT
8	16	PL 10 x 456 x 1201 LG.	18	A36	CUT
9	12	PIPE CPLG 1 1/2" NPS STD. THD.	2	A105	
10	12	PIPE PLUG 1 1/2" NPS STD. THD.	1	A105	

MATERIAL SHOWN IS FOR 2 (TWO) CASING MODULES  
 UNIT #1 (AS SHOWN) }  
 UNIT #2 (OPP. HAND) } UNLESS NOTED OTHERWISE

MATERIAL NOTE: ALL MATERIAL SHALL CONFORM TO MIDREX SPEC. FOR PIPING 3863-PP-01S (SECTION C2) (UNLESS NOTED)

ALL STRUCTURAL MATERIAL SHALL CONFORM TO SPEC'S SHOWN ON MIDREX STRUCTURAL GENERAL NOTES DWG. 3863-C3-001.

PAINT NOTE: FOR PAINT SYSTEM SEE MIDREX SPECIFICATION 3863-GN-12S

- NOTES:
- ALL DIMENSIONS GIVEN IN MILLIMETERS.
  - BILL OF MATERIAL:  
 LENGTH OF ROLLED SHAPES AND ALL PLATE DIMENSIONS (EXCEPT ROLLED DUCT PLATE THICKNESS) GIVEN IN MILLIMETERS. ALL WEIGHTS ARE GIVEN IN KILOGRAMS. PLATE WIDTH GIVEN IN BILL OF MATERIAL IS THE ACTUAL CIRCUMFERENCE ALONG THE CENTERLINE OF THE PLATE. ADDITIONAL MATERIAL REQUIRED FOR ENGAGEMENT OF ROLLS TO BE DETERMINED AND ADDED BY FABRICATOR AS REQUIRED.
  - SHOP REQUIRED WELDED DUCT SEAMS, BOTH LONGITUDINAL AND TRANSVERSE SHALL NOT BE LOCATED IN THE VICINITY OF:  
 (a) INTERSECTING DUCTS OR THEIR REINFORCEMENT PLATES  
 (b) DUCT SUPPORT LEGS  
 (c) LIFTING OR HANGER LUGS
  - WELDING TO CONFORM TO APPROVED WELDING PROCEDURES.
  - ALL HOLES TO BE AS NOTED AND FREE OF BURRS.
  - ALL WELDS TO BE CONTINUOUS AND AIRTIGHT UNLESS NOTED.
  - ALL FLANGE OR BEARING SURFACES TO BE SMOOTH, EVEN, AND FREE OF BURRS.
  - FOR SPECIFICATION NOTES SEE DWG. T6-101.
  - AT TIME OF INSTALLATION OF COLLECTOR, CUT PIPES AS INDICATED ONLY AFTER VERIFYING BUNDLE CONNECTIONS ARE TRUE & LEVEL.
  - HEADERS TO BE HYDROSTATICALLY PRESSURE TESTED AT 50 PSI FOR 30 MINUTES WITHOUT LEAKS.
  - FOR BILL/MATERIAL ITEMS #1, & 3, THE FABRICATOR HAS THE OPTION TO PROVIDE PIPE AS PER MIDREX SPECIFICATION 3863-PP-01S (SPEC. C8) IN LIEU OF THE ROLLED PLATE NOTED IN THE BOM. (PROVIDED THAT THE WALL THICKNESS IS EQUAL TO OR GREATER THAN THE PLATE THICKNESS SHOWN.)

REFERENCE DRAWINGS:  
 T6-020 - HEAT RECOVERY SYSTEM - MASTER DRAWING LIST  
 T6-100 HEAT RECOVERY SYSTEM - BYPASS AIR & HEADER ARRANGEMENT PLAN