

DOCUMENT SUBMISSION STATUS: RE						
NOTE:						
A	02 Nov. 2016	For Approval	G.Y.OH	G.Y.OH	S.H.YANG	
REV.	DATE	DESCRIPTION	DRAWN	CHECKED	APPROVED	APPROVED
OWNER  VIETNAM OIL AND GAS GROUP (PVN)			OWNER'S CONSULTANT  FICHTNER GmbH & Co. KG  PVPOWER PCC			
EPC CONTRACTOR  PETROVIETNAM CONSTRUCTION JOINT STOCK CORPORATION (PVC)			EPC CONSTRUCTOR'S CONSULTANT  WORLEYPARSONS			
POWER ISLAND PACKAGE SUPPLIER  SOJITZ CORPORATION  DAELIM INDUSTRIAL CO., LTD.						
PROJECT TITLE						
THAI BINH 2 THERMAL POWER PLANT 2 x 600MW						
DRAWING / DOCUMENT TITLE						
Catalyst Outline Drawing for De-Nox System						
Vendor's Logo: 			FUNCTION	NAME	SIGN	DATE
			DRWN	G.Y.OH		02 Nov. 2016
			CHKD	G.Y.OH		02 Nov. 2016
			APPD	S.H.YANG		02 Nov. 2016
DOCUMENT NO: TB2-SDC.VP124-00100-M-M1A-DRD-0101			No of page: 7		Scale	Rev.A

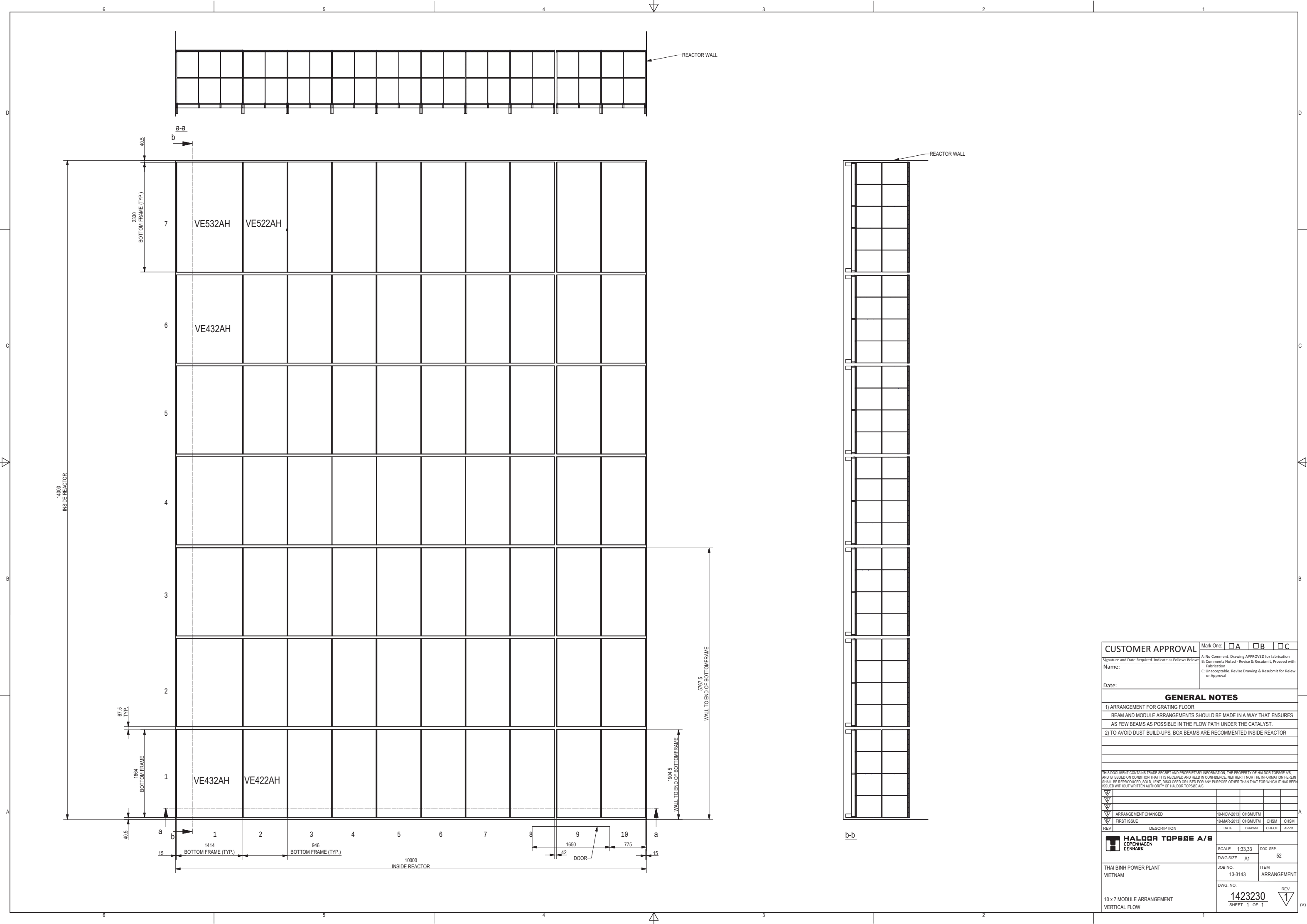
P.O NO.	110180-29-124-001-A01
ITEM NO.	124
ITEM DESCRIPTION	De-Nox System
DOCUMENT NO.	TB2-SDC.VP124-00100-M-M1A-DRD-0101
DOCUMENT TITLE	Catalyst Outline Drawing for De-Nox System
REV NO.	A

Daelim's Approval Status

Daelim Industrial Co., Ltd.	
Job No.	110180
	A - APPROVED
	B - APPROVED WITH COMMENTS
	C - RETURNED FOR CORRECTION
	D - REJECTED
	N - NOT APPLICABLE(REFERENCE ONLY)
SIGNED BY : _____ DATE : _____	
DIC'S PERMISSION TO PROCEED OR REVIEW TAKEN ON VENDOR PRINTS SHALL NOT RELIEVE VENDOR FROM ITS RESPONSIBILITIES OR LIABILITIES UNDER THE PURCHASE ORDER.	

VENDOR'S LOGO:





CUSTOMER APPROVAL

Mark One: ☐ A ☐ B ☐ C

Signature and Date Required. Indicate as Follows Below:

Name:

A: No Comment. Drawing APPROVED for fabrication
B: Comments Noted - Revise & Resubmit, Proceed with Fabrication
C: Unacceptable. Revise Drawing & Resubmit for Reline or Approval

Date:

GENERAL NOTES

- ARRANGEMENT FOR GRATING FLOOR
BEAM AND MODULE ARRANGEMENTS SHOULD BE MADE IN A WAY THAT ENSURES AS FEW BEAMS AS POSSIBLE IN THE FLOW PATH UNDER THE CATALYST.
- TO AVOID DUST BUILD-UPS, BOX BEAMS ARE RECOMMENDED INSIDE REACTOR

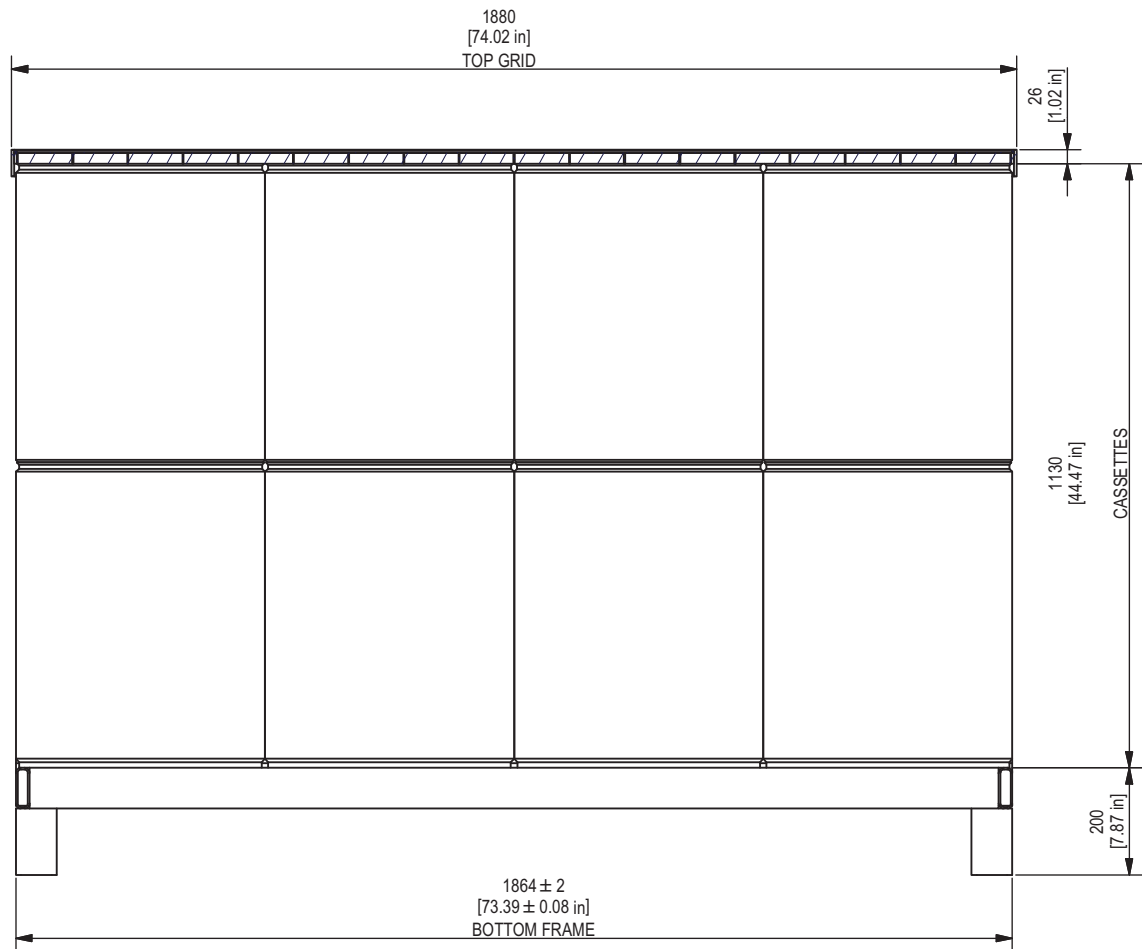
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REV	DESCRIPTION	DATE	DRAWN	CHECK	APPRO.
1	ARRANGEMENT CHANGED	19-NOV-2013	CHSM/UTM		
2	FIRST ISSUE	19-MAR-2013	CHSM/UTM	CHSM	CHSM

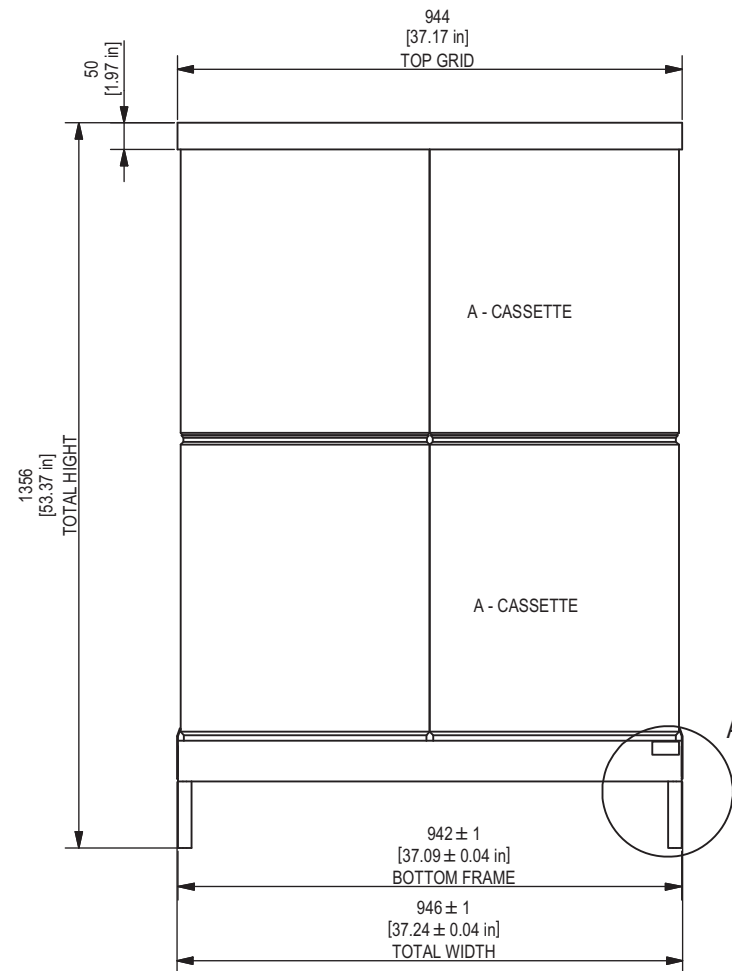


THAI BINH POWER PLANT VIETNAM	JOB NO. 13-3143	ITEM ARRANGEMENT
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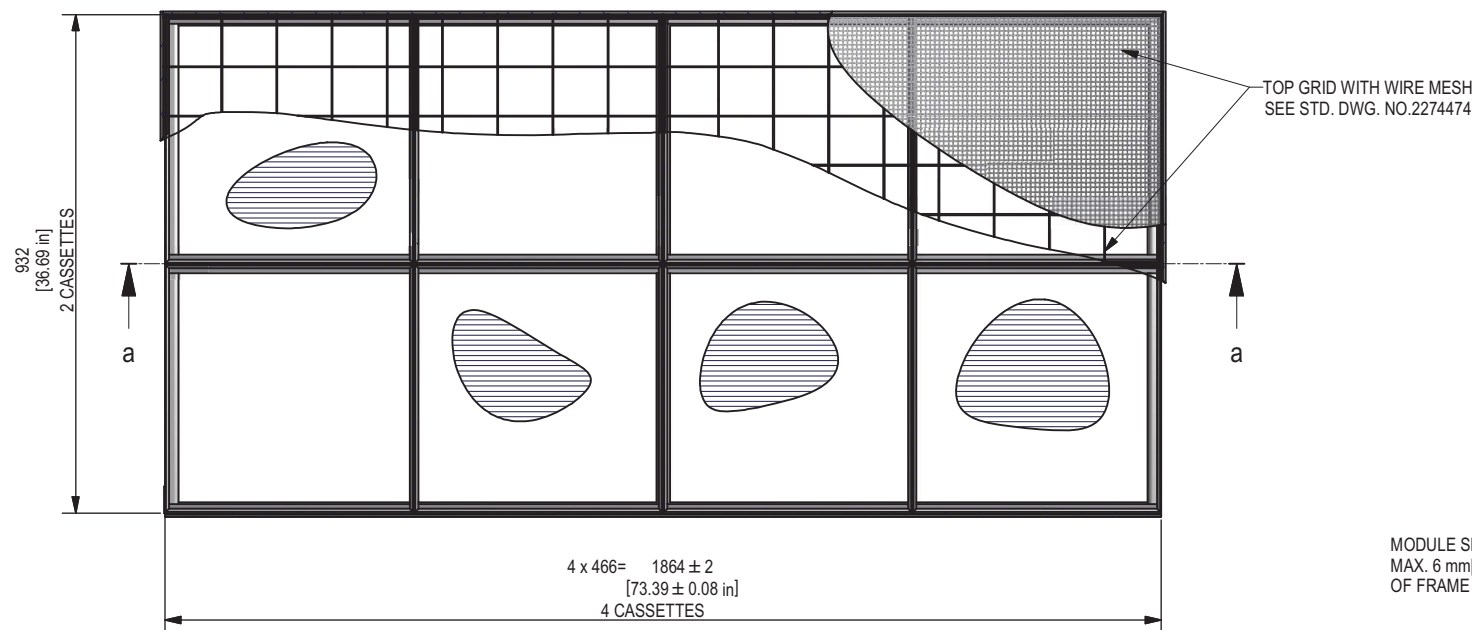
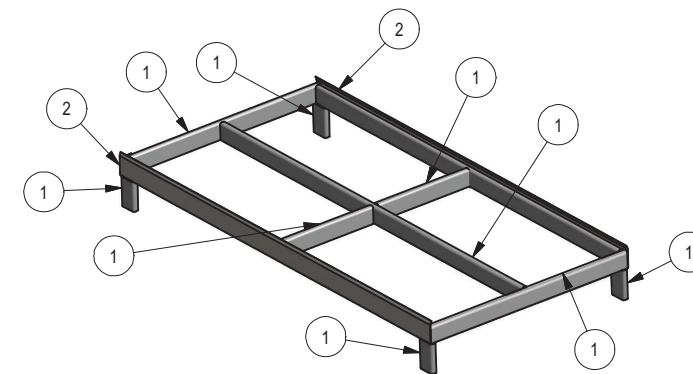
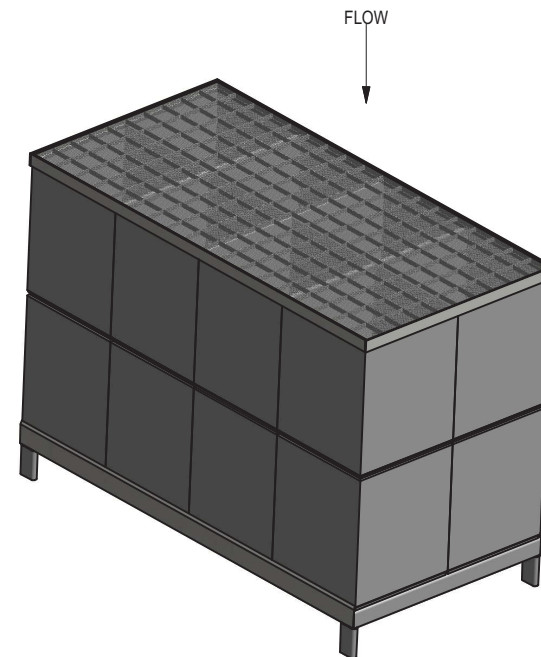
10 x 7 MODULE ARRANGEMENT VERTICAL FLOW	SCALE 1:33,33 DWG SIZE A1 JOB NO. 13-3143 DWG. NO. 1423230 SHEET 1 OF 1	DOC. GRP. 52 REV. 1
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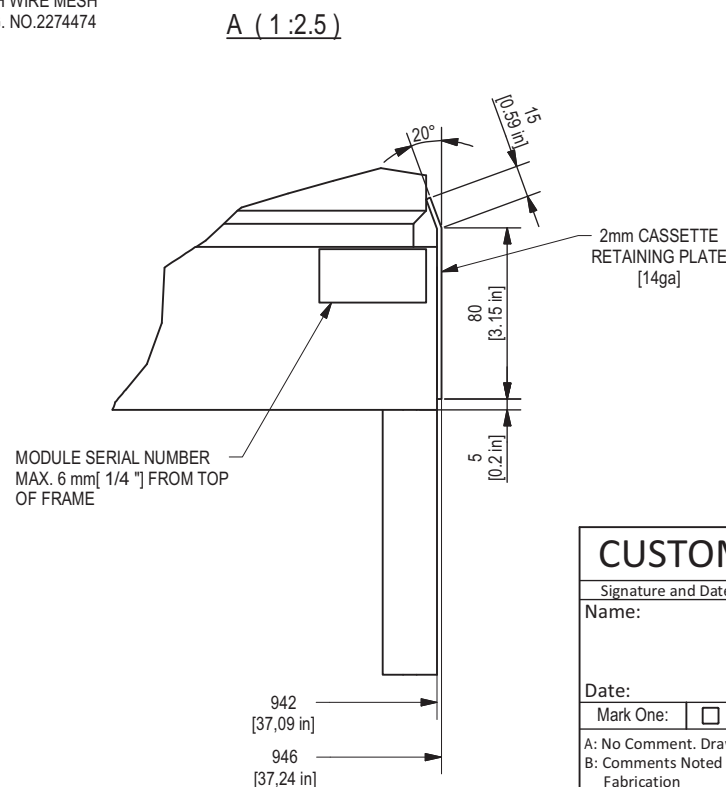
a-a



SIDE VIEW



TOP VIEW



CUSTOMER APPROVAL

Signature and Date Required. Indicate as Follows Below:
Name:

Date:

Mark One: ☐ A ☐ B ☐ C

A: No Comment. Drawing APPROVED
B: Comments Noted - Revise & Resubmit, Proceed with Fabrication
C: Unacceptable. Revise Drawing & Resubmit for Reiew or Approval

PARTS LIST			
ITEM	QTY	DESCRIPTION	MATERIAL
1	-	80 x 25 x 3, 3" x 1" x 11ga (0.12")	CS ASTM A36, S235G3
2	-	RETAINING PLATE [14 ga]	CS ASTM A36, S235G3

GENERAL NOTES

- TOTAL WEIGHT OF A MODULE WITH TOP GRID: 514- 566 kg (1133 - 1248 lb)
- ALL OUTSIDE WELDINGS ON THE BOTTOM FRAME MUST BE GROUND FLUSH WITH SURFACE
- THE TOP LAYER CASSETTES MUST BE TURNED 90° COMPARED TO THE BOTTOM LAYER.
- CASSETTES ARE TACKWELDED TO THE BOTTOMFRAME AND TO EACH OTHER IN THE TOP.
- THE TOP GRID IS DESIGNED TO BE WALKED ON DURING MAINTENANCE IN THE REACTOR - POINT LOAD 120 kg (265 lbs)
- THE CATALYST MODULE IS LIFTED, MOVED AND INSTALLED BY FORK LIFT/ PALLET CART AT BOTTOM OF MODULE
- DIMENSIONS GIVEN IN mm AND US UNITS. DRAWN DIMENSIONS IN mm.

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▽	FIRST ISSUE	19-MAR-2013	CHSM/JTM	
REV	DESCRIPTION	DATE	DRAWN	CHECK
				APPD.
 HALDOR TOPSØE A/S COPENHAGEN DENMARK		SCALE 1:10	DOC. GRP. 52	
		DWG SIZE A2		
THAI BINH POWER PLANT VIETNAM		JOB NO. 13-3143	ITEM VE422AH	
CATALYST MODULE ON BOTTOM FRAME WITH TOP GRID VERTICAL FLOW		DWG. NO. 2343227	REV. 0	
		SHEET 1 OF 1		

