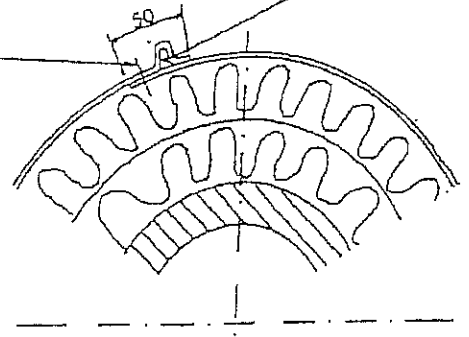


ΔΙΑΜΕΤΡΟΣ ΒΙΒΛΙΟΥ
φ4.2 - 6 Τεμ./m



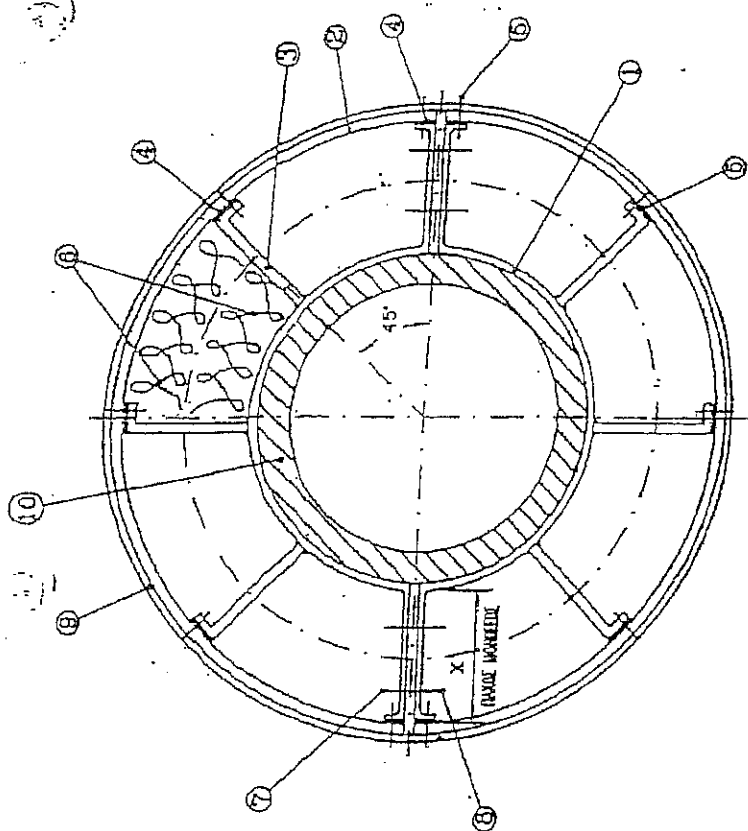
Τομή Α-Β

ΠΑΡΑΤΗΡΗΣΕΙΣ

ΕΠΙ ΚΑΤΑΚΟΡΤ*ΟΝ ΑΙΜΑΓΩΓΩΝ ΟΙ ΚΑΤΑ ΤΗΝ ΓΕΝΕΤΕΙΡΑ ΣΤΗΛΑΞΕΙΣ
ΓΙΝΟΝΤΑΙ ΣΤΟ ΑΝΤΙΘΕΤΟ ΣΗΜΕΙΟ ΤΗΝ ΑΤΙΜΕΝΕΙΣΤΕΡΟΝ ΚΑΙΡΙΚΩΝ
ΣΤΗΘΗΚΩΝ.
ΤΟ ΑΔΙΑΜΟΡ*ΟΤΙΟ ΑΚΡΟ ΤΟΥ ΦΤΑΛΟΥ ΤΟΠΟΘΕΤΕΙΤΑΙ ΠΑΝΤΑ ΣΤΑ
ΑΝΩ ΣΗΜΕΙΑ.

ΤΟΠΟΘΕΤΗΣΗ ΕΠΙΚΑΛΥΨΗΣ ΜΟΝΩΣΗΣ ΑΙΜΑΓΩΓΩΝ

ΜΕΛΕΤΗΘΗΚΕ	ΣΧΕΔΙΑΣΤΗΚΕ	ΘΕΩΡΗΘΗΚΕ	ΗΜΕΡΟΜΗΝΙΑ:
ΑΧ. ΒΑΣΙΛΕΥΡΑΚΗ	Ε. ΜΑΝΙΑΤΗΣ	ΧΡ. ΚΑΤΣΙΚΑΡΗΣ	10-10-1997
Α. Β. Β. Α. Γ. Γ. Κ. Ο. Π.			ΤΑΥΚΟ:



10	ΑΙΜΑΤΙΟΙ					
9	ΕΛΣΜΑ ΕΠΙΚΑΤΥΨΗΣ				ΓΑΛΒΑΝΙΖΕ Ή ΛΑΟΤΜΙΝΟΪΤΣΑΟ	
8	ΠΕΡΙΚΟΧΛΙΟ Μ8		4			
7	ΚΟΧΛΙΑ Μ8x15		4			
6	ΘΕΡΜΟΜΟΝΩΠΙΚΑ ΤΑΙΧΑ				ΠΕΤΡΟΒΑΜΒΑΚΑΣ Ή ΤΑΛΟΒΑΜΒΑΚΑΣ	
5	ΠΕΡΙΝΙ-ΣΤΑΦΕΡΟΣ ΣΤΗΛΑΞΙΜΟΙ			10	ΠΕΡΙΝΙ ΣΤΡΥΠΤ Φ4	
4	ΘΕΡΜΟΜΟΝΩΠΙΚΟ ΤΑΙΧΟ 10x40x4			10	ΜΗ ΑΜΙΑΝΤΩΤΟ	
3	ΔΑΚΤΥΛΟΣ ΑΠΟΣΤΑΣΗΣ-ΛΑΜΑ 30x2		51	37,2	2	ΔΙΑΦΟΤΜΕΝΟΣ
2	ΠΕΛΜΑ ΑΠΟΣΤΑΣΗΣ-ΛΑΜΑ 30x3			150x3	6	
1	ΔΑΚΤΥΛΟΣ ΣΤΕΚΡΑΤΗΣΗΣ-ΛΑΜΑ 30x3			150x3	2	ΔΙΑΦΟΤΜΕΝΟΣ
Α/Α	Π Ε Ρ Ι Γ Ρ Α Φ Η	ΤΑΙΧΟ	ΤΕΜ.	Π Α Ρ Α Τ Η Ρ Η Σ Ε Ι Σ		

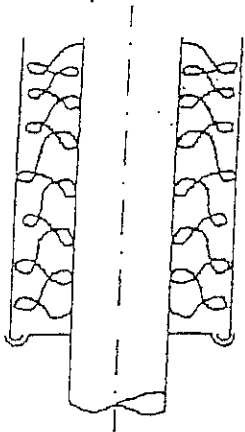
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ΜΕΛΕΤΗΘΗΚΕ	ΣΧΕΔΙΑΣΤΗΚΕ	ΘΕΩΡΗΘΗΚΕ	ΗΜΕΡΟΜΗΝΙΑ
ΑΧ. ΒΑΣΙΛΕΥΣΗΣ	Ε. ΜΑΝΙΑΤΗΣ	ΧΡ. ΚΑΤΣΙΚΑΡΗΣ	10-10-1997

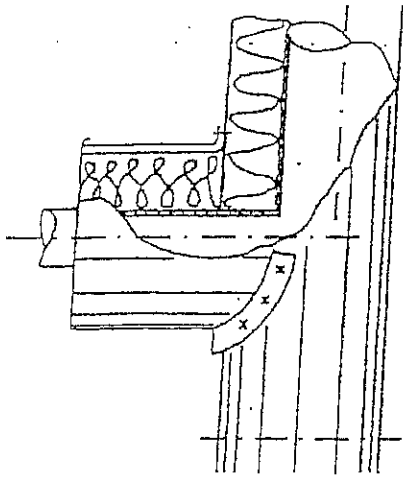
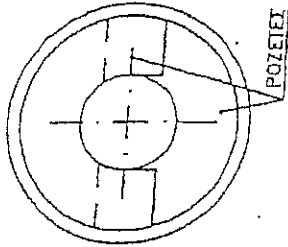
ΤΑΙΧΟ:

ΔΕΠ-ΔΕΠ-ΚΟΠ

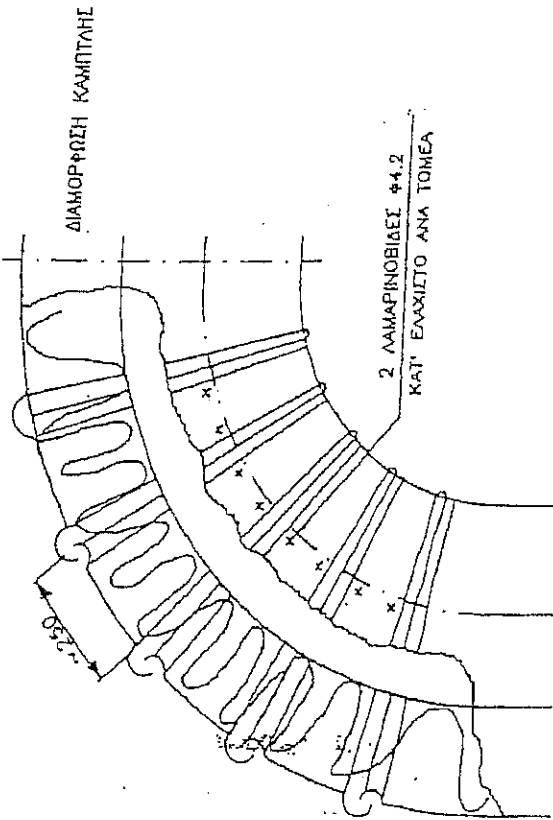
ΑΡΙΘΜΟΣ ΣΧΕΔΙΟΥ
ΔΕΠ/ΚΟΠ-2



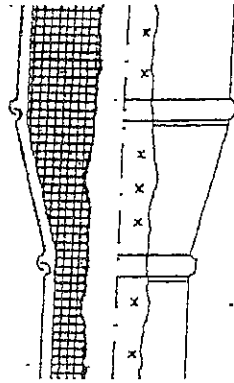
ΔΙΑΜΟΡΦΩΣΗ
ΑΚΡΩΝ ΓΙΑ ΤΟΠΟΘΕΤΗΣΗ ΡΟΖΕΤΑΣ



ΔΙΑΜΟΡΦΩΣΗ ΤΑΤ



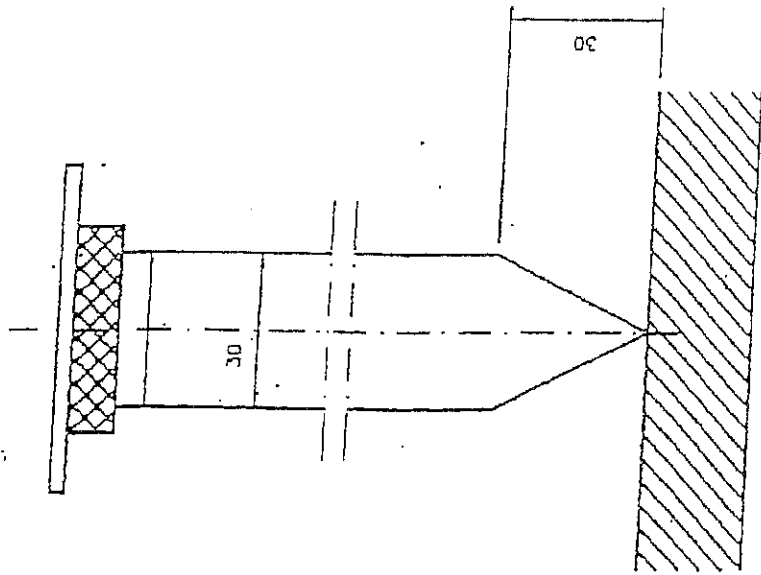
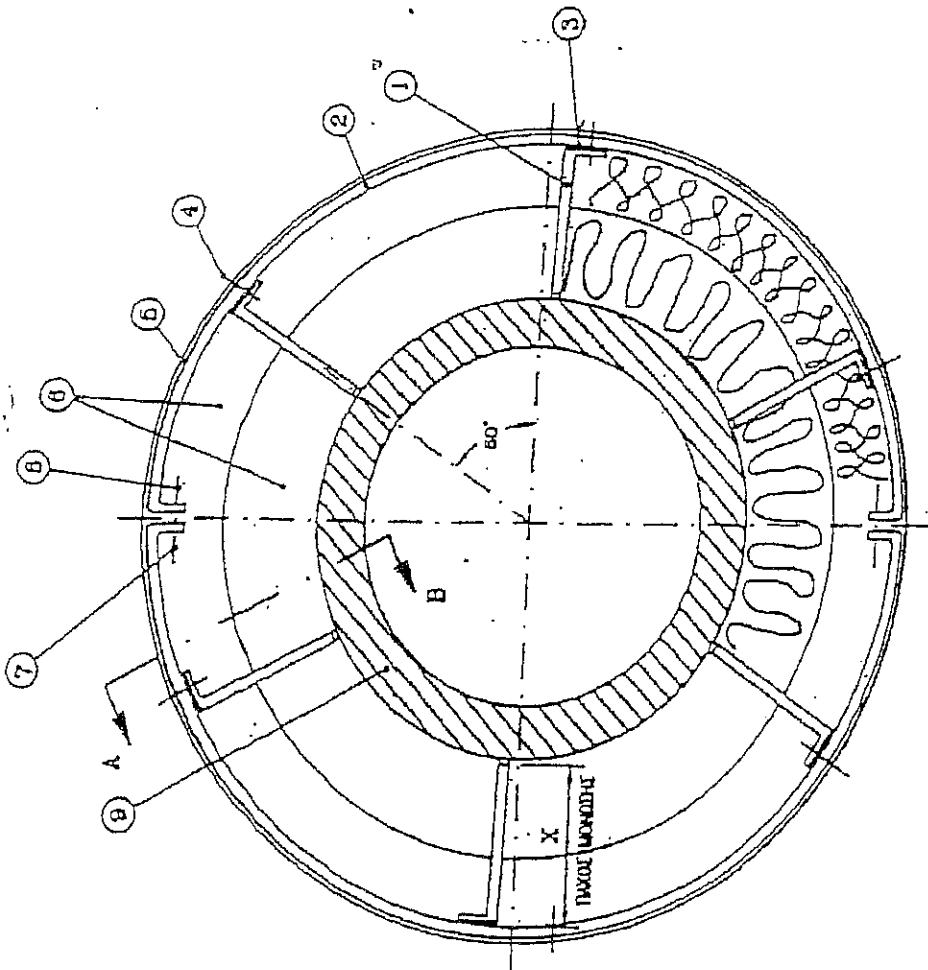
ΔΙΑΜΟΡΦΩΣΗ ΚΑΜΠΤΛΗΣ



ΔΙΑΜΟΡΦΩΣΗ ΣΤΙΣΤΟΛΗΣ

ΕΦΑΡΜΟΓΗ ΜΟΝΩΣΗΣ ΑΤΜΑΓΩΓΩΝ (ΛΕΠΤΟΜΕΡΕΙΕΣ)

ΜΕΛΕΤΗΘΗΚΕ	ΣΧΕΔΙΑΣΤΗΚΕ	ΘΕΡΜΟΤΗΚΕ	ΗΜΕΡΟΜΗΝΙΑ
ΑΧ.ΒΑΣΙΛΕΩΦΑΝΗΣ	Ε.ΜΑΥΚΑΤΗΣ	ΧΡ.ΚΑΤΣΙΚΑΡΗΣ	10-10-1997
Α Τ Τ Τ Τ			ΤΑΝΚΟΙ

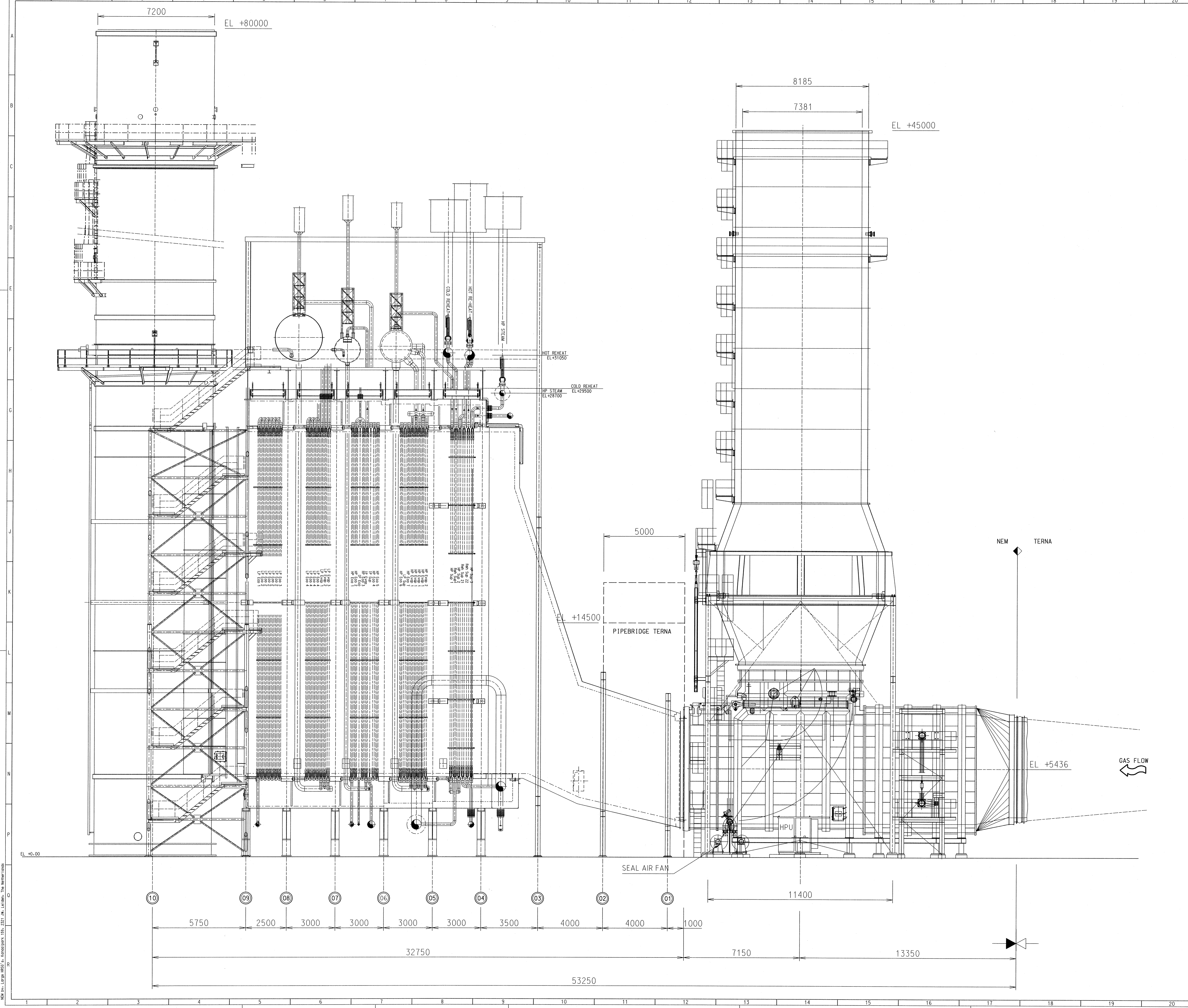


Τομή Α-Β

9	ΑΙΜΑΤΙΔΙΟΙ			
8	ΠΕΡΙΚΟΛΩΟ ΜΟ		2	
7	ΚΟΧΛΙΑΙ ΜΒΧ15		2	
6	ΒΕΡΜΟΜΟΝΩΤΙΚΑ ΤΑΚΑ			ΠΕΤΡΟΒΑΜΒΑΚΙΑ Ή ΤΑΦΟΒΑΜΒΑΚΙΑ ΓΑΒΑΝΙΖΕ Ή ΔΑΚΤΥΛΙΝΟΪΤΑΔ
5	ΕΛΑΣΤΑ ΕΠΙΚΑΤΥΤΗ			
4	ΠΕΡΤΙΝΙ-ΣΤΑΘΕΡΟΙ ΣΤΗΛΕΙΜΟΙ ΠΕΛΑΜΙΔΕΣ ΜΕ ΔΑΚΤΥΛΟ		6	ΠΕΡΤΙΝΙ ΣΤΡΠΙΟΤ 44
3	ΜΗ ΑΜΑΝΤΟΤΑΚΟ ΘΕΡΜΟΜΟΝΩΤΙΚΟ ΤΑΚΟ 40x40x4		6	
2	ΔΑΚΤΥΛΟΜΕΝΟΙ ΔΑΚΤΥΛΟΙ--ΑΜΑ 30x3 ΒΕΛΑ ΑΠΟΓΓΑΤΗΣ--ΑΜΑ 30x3	51 37.2 15m ² 3	2	
			6	

ΔΑΚΤΥΛΟΣ ΑΠΟΓΓΑΤΗΣ ΕΠΙΚΑΤΥΤΗΣ ΘΕΡΜΟΜΟΝΩΣΗΣ ΑΙΜΑΤΙΔΙΩΝ

ΜΕΛΕΤΗΘΗΚΕ	ΕΚΔΕΛΤΗΘΗΚΕ	ΘΕΩΡΗΘΗΚΕ	ΗΜΕΡΟΜΗΝΙΑ
ΑΧ.ΒΑΣΙΛΕΪΩΑΝΗ	Ε.ΜΑΝΙΑΤΗΣ	ΧΡ.ΚΑΤΕΚΑΡΗΣ	10-10-1997
Α Π Τ Τ			ΤΑΚΟ:

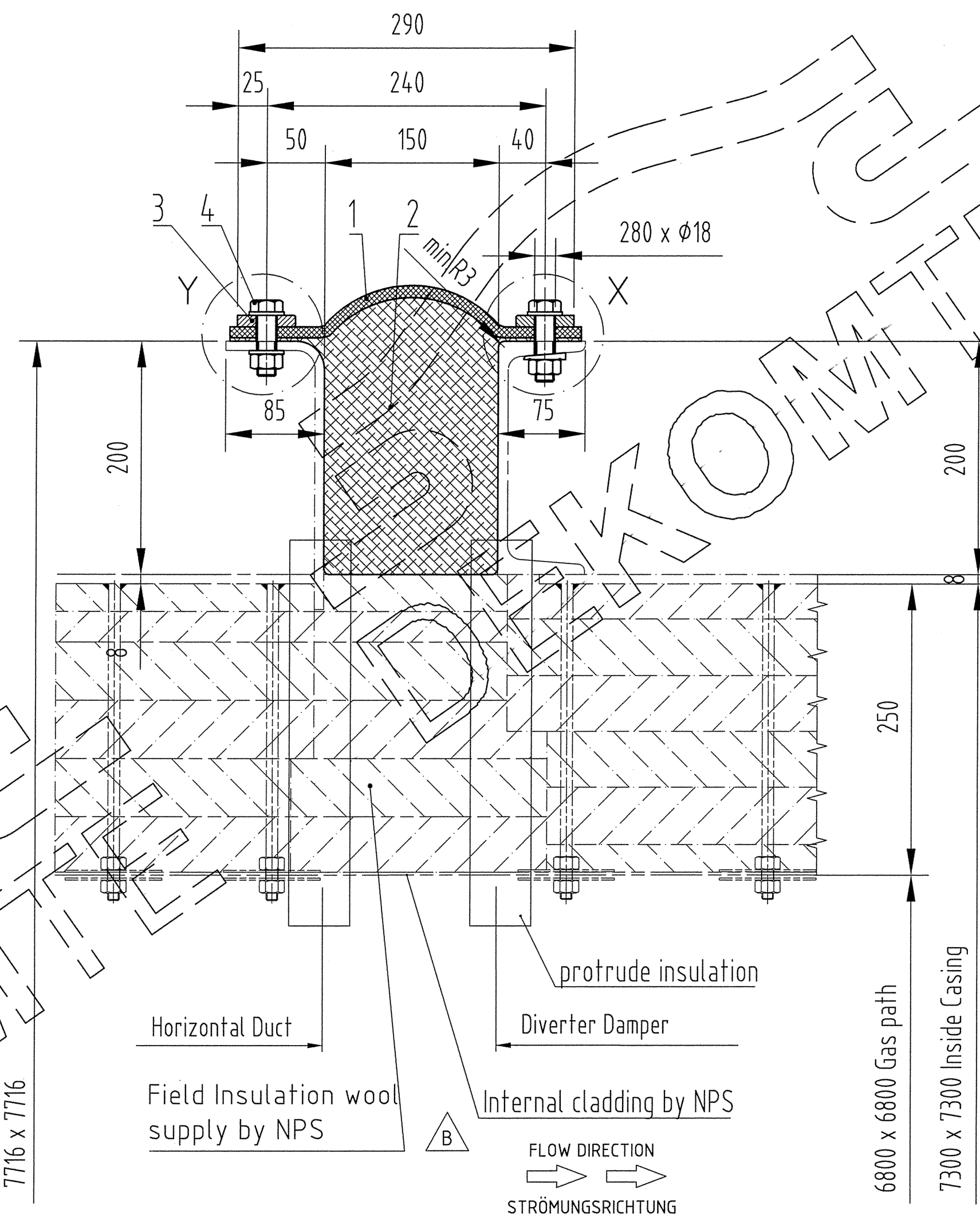


REVISION DESCRIPTION		DESIGNATION	ITEM NUMBER	CLIENT	J/V METKA S.A.
FIRST ISSUE - FINAL SALES DRAWING, REV. 9		G.A.	-	PROJECT	MEGALOPOLIS V
3RD PARTY				PROJECT	MEGALOPOLIS V
REVIEW A-1:		TITLE		FORMAT	SCALE
APPROVED	MST 21-JUL-2010	GENERAL ARRANGEMENT		AO	1:75
CHECK 2	PZM 21-JUL-2010	LEFT SIDE VIEW			SHEET 1/1
CHECK 1					
ISSUED	MEFY 14-SEP-2010	PROJECT	PBS	DRAWING NUMBER	REV
INTERNAL DRAWING STATUS	APPROVED	21033	100	05-002	0
PROJECT: CCPP MEGALOPOLIS UNIT V		CONTRACT NO.:		11 07 2251	
AKS DOCUMENT NO: 443-11-H-GDA-NEM-10052		CLIENT: J/V METKA S.A. - ETADE S.A.			
443-12-H-GDA-NEM-10052					

100% by L. Lopez 08/05/10, 100% by J.M. de la Torre, The Netherlands

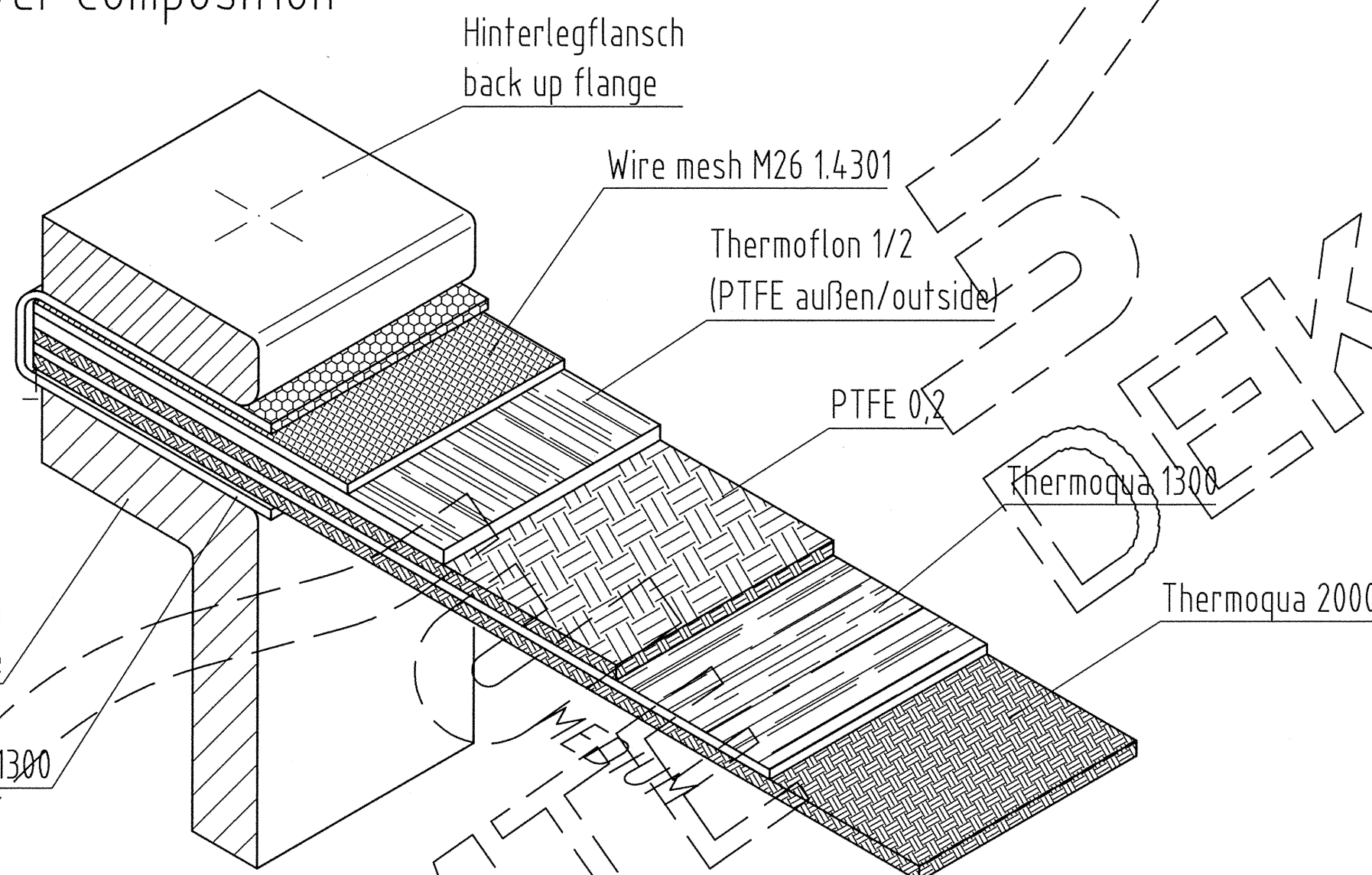
SECTION A-A

NOTE:
Fabric expansion joint
second side punched on installation
Backup-flange
280 x slotted holes 18x36 mm



- Hexagon screw M16x70 ISO 4014 hot dip galvanised
- Plain washer ISO 7089 hot dip galvanised
- Plain washer ISO 7089 hot dip galvanised
- Hexagon nut ISO 4032 hot dip galvanised

Expansion Joint Layer Composition



- Hexagon screw M16x70 ISO 4014 hot dip galvanised
- Plain washer ISO 7089 hot dip galvanised
- Shaped washer DIN 434 hot dip galvanised
- Hexagon nut ISO 4032 hot dip galvanised

DETAIL Y

DETAIL X

Betriebsbedingungen / working conditions

Medium:	Abgas, Rauchgas / flue gas	
design temperature [°C]:	617	max. 671,7
operating temperature [°C]:	-11 ... +41	37,5
Umgebungstemperatur [°C]:	-20 / +75	5
design pressure static [mbar]:	±15	0
Bewegung axial Z [mm]:	±10	0
movement axial Z [mm]:	±10	0
Bewegung lateral Y [mm]:	ja / yes (by NPS)	ja / yes
movement lateral Y [mm]:	jauchgasdicht nach RAL - T1 002	Flue gas tight according RAL - T1 002
Leitblech deflector:	ja / yes (by NPS)	isolation: ja / yes
Dichtungsgrad: tightness:	jauchgasdicht nach RAL - T1 002	Flue gas tight according RAL - T1 002

Toleranzzugabe ±20mm axial und ±20mm lateral
tolerance of ±20mm axial and ±20mm lateral

Pos. item	Stück quant.	Benennung description	Abmaße dimension	Material	Merkstoff material	Gewicht weight	Bemerkung remarks
5	56	Unterlegbleche EJ7b1	80 x 45 x 1	10038	galvanised		delivered 65 pcs.
4	560	Verschraubung EJ7c+EJ7d	M16x70	8.8	hot dip galvanised		delivered 600 pcs.
3	2	Hinterlegflansch EJ7b	50x10	10038	Feuerverzinkt		hot dip galvanised
2	1	Vorisolations EJ7a	siehe Zeichnung	DKT-Norm	offen, 2-teilig, 1 Seiten gel		666-03-XX-XX
1	1	Weichstoffkompensator Fabric expansion joint	siehe Zeichnung	DKT-Norm	offen, 1-teilig, 1 Seiten gel		500-21-05-2-05

Wellenlänge sowie Vervielfältigung dieser Unterlage, Verwertung und Mitteilung ihres Inhalts nicht gestattet, soweit nicht ausdrücklich schriftlich zugestanden. Zuwiderhandlungen verpflichten zu Schadenersatz und können strafrechtliche Folgen haben. Alle Rechte für den Fall der Patenterteilung oder Gebrauchsmuster-Eintragung bleiben vorbehalten. DEKOMTE GmbH

DEKOMTE
DEKOMTE de Temple GmbH
Waldmühlstr. 13, D-63500 Seligenstadt
Tel.: +49(0)6182/21014 • Fax: +49(0)6182/2101400

Projekt/projekt: CCPP Megalopolis UNIT V, Unit 1, 2
GE MS9001FA/9FA, EJ07

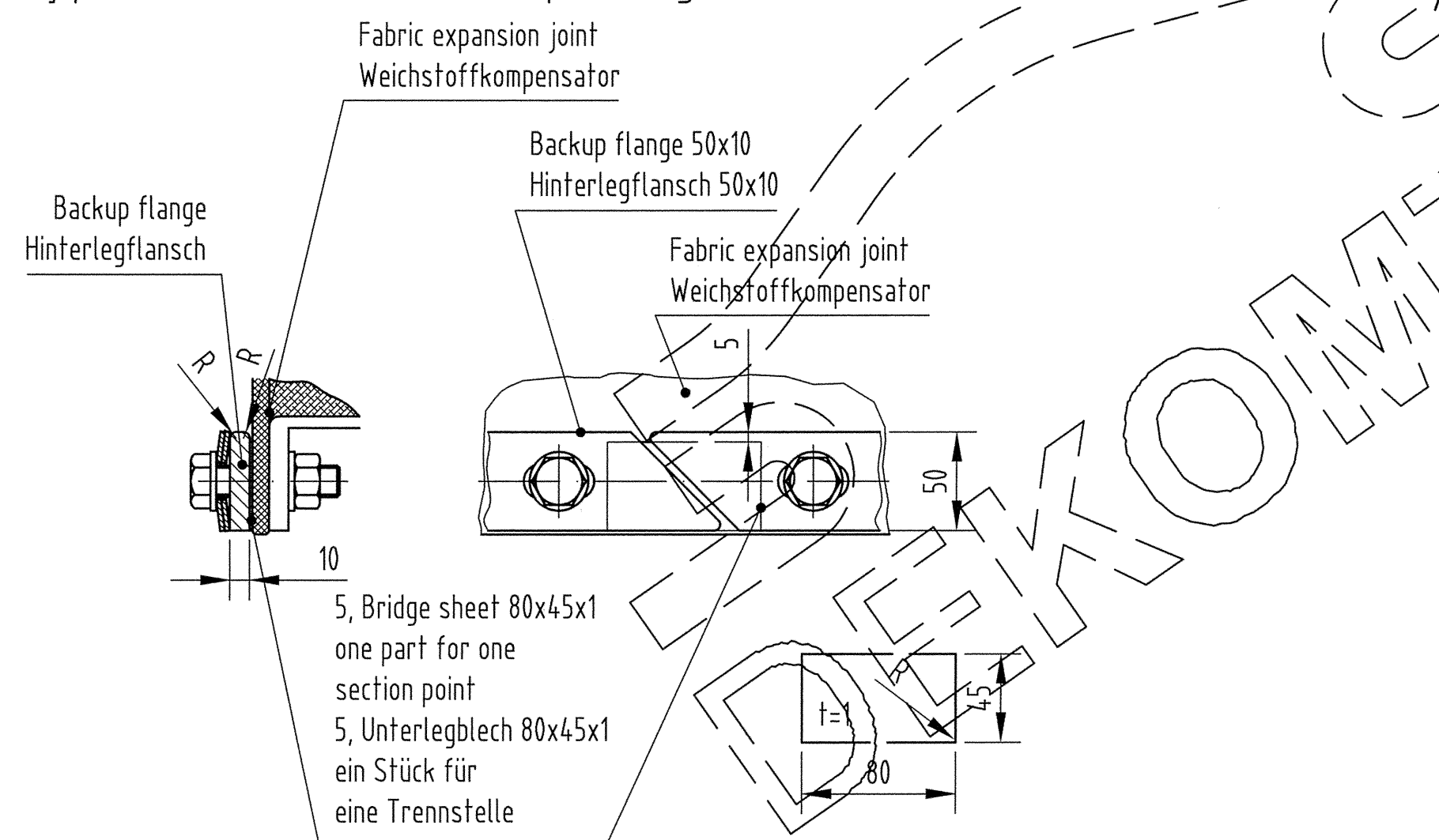
Benennung: DEKOMTE KOMPENSATOR TYP 10G

DEKOMTE EXPANSION JOINT TYP 10G

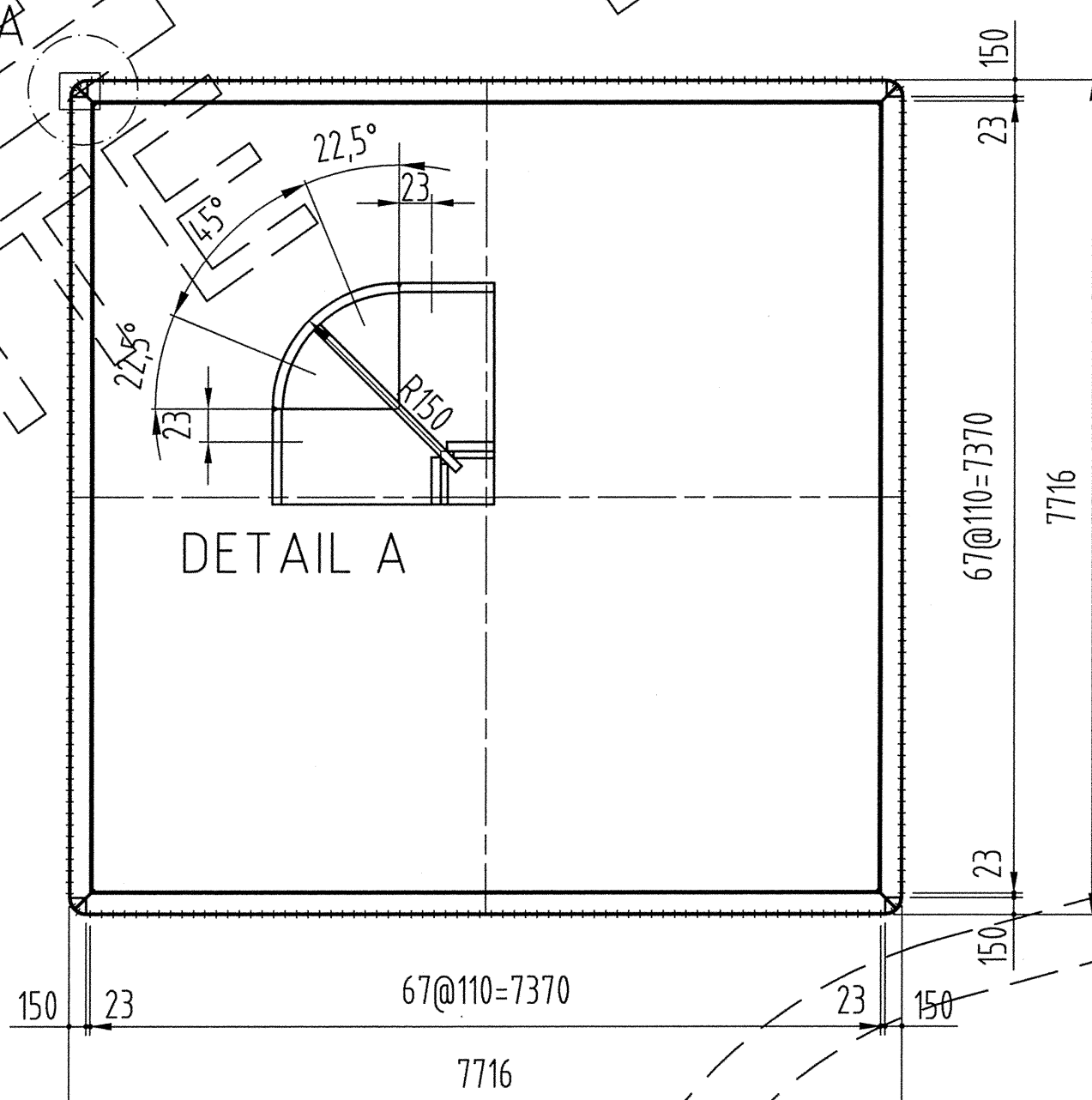
11088489-EJ07

EDW Nr.: 88489-EJ07-B

Typical section of backup flanges



Hole pattern Diverter & Duct Expansion joint flange



KKS: 11/12MBR10BR012

Beachte:
Bei Montage der Ecken Kompensatoren ausrichten.
Verflanschung von Ecken aus beginnen.
First align expansion joint at corners.
Start mounting back up flanges at corners.

Rev. Änderung/modification

Maße ohne Toleranzangaben: N-27-0100a

Projektorientierung: NTS

Zeichnungsnummer: 11088489-EJ07

EDW Nr.: 88489-EJ07-B

SWISS TOLERANCES: DIN EN ISO 5817 C

Welding Tolerances: DIN EN ISO 5817 C

Format: A1

30.03.2011 DEKOMTE

45666 RECKLINGHAUSEN / GERMANY

NEM POWER-SYSTEMS

11304-13-0500

21033-11-0507 Field Assembly Drawing Guide Plates EJ07

21033-00-0100 Exhaust Bypass System General Arrangement Drawing

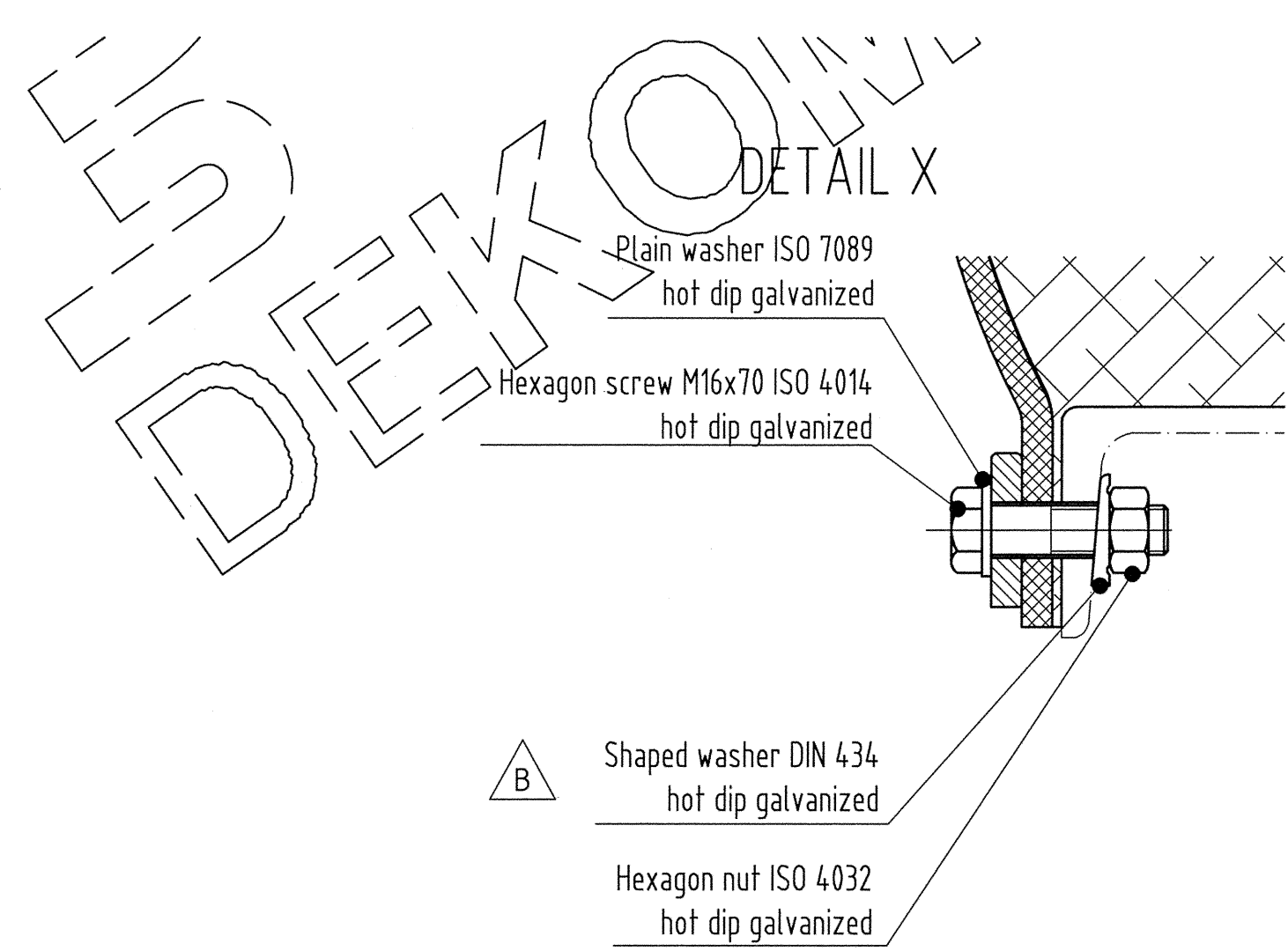
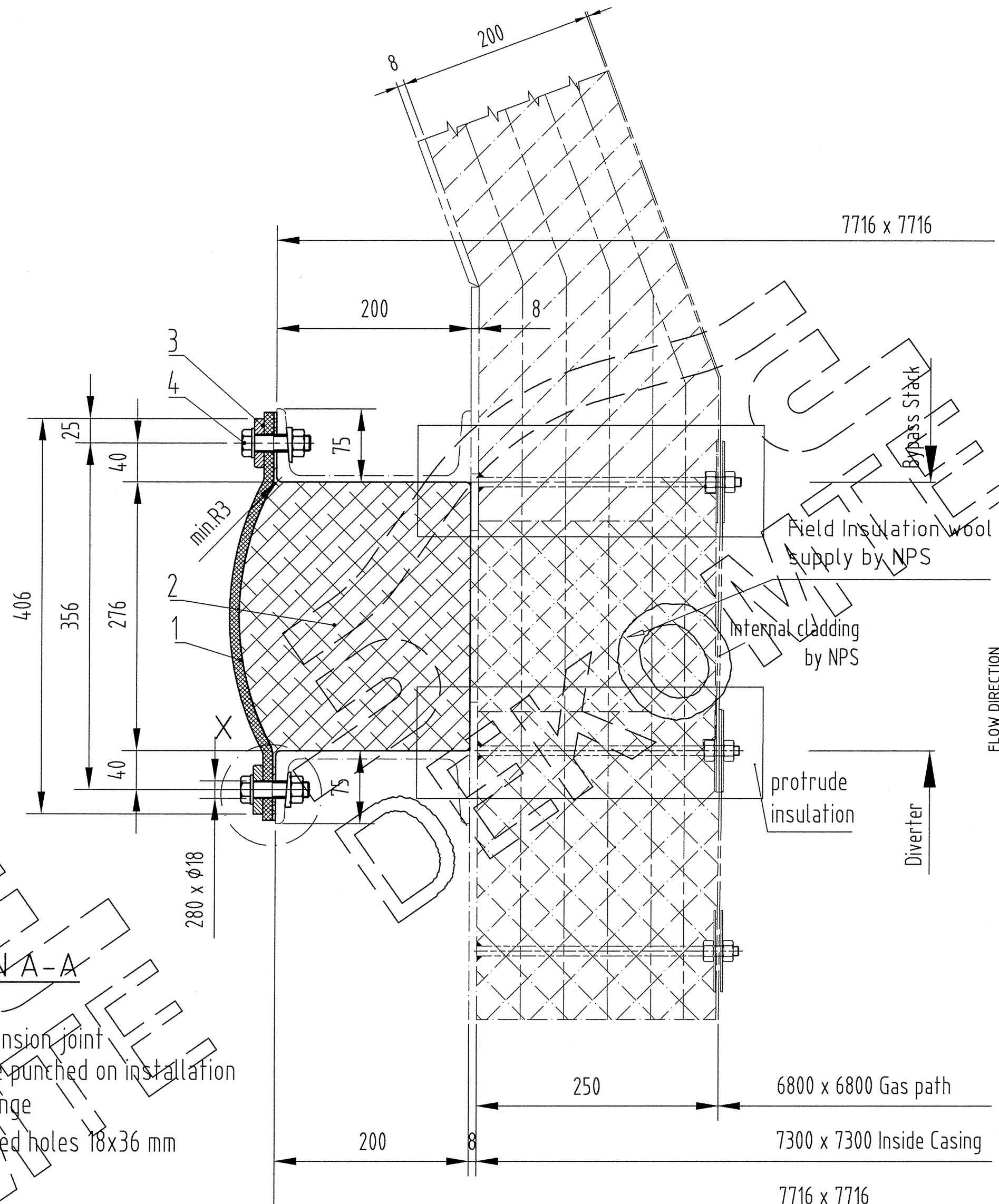
REVISION DESCRIPTION	DESIGNATION	ITEM NUMBER	CLIENT	J/V METKA S.A.
FOR INFORMATION	EQUIPMENT	MBR10	PROJECT	MEGALOPOLIS V

3RD PARTY	APPROVED	CHECK 2	CHECK 1	ISSUED	INTERNAL DRAWING STATUS	PROJECT	PBS	DRAWING NUMBER	REV
-	JIBE 04-APR-2011	-	JIBE 31-MAR-2011	DEKOMTE 30-MAR-2011	APPROVED	21033	-	13-0500	0

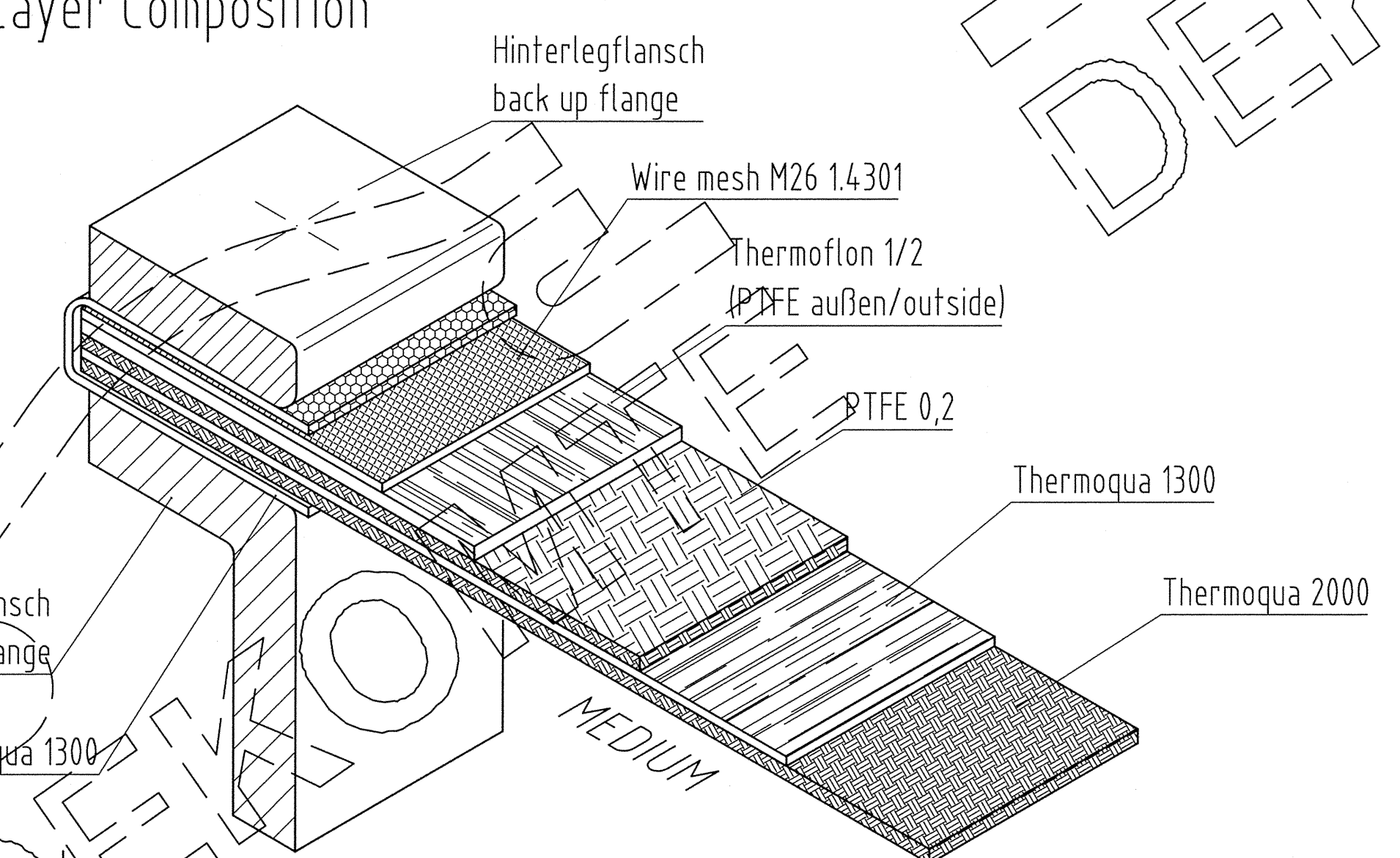
PROJECT: CCPP MEGALOPOLIS UNIT V CONTRACT No.: 11 07 2251

KKS DOCUMENT NO: 443-11-H-ODM-NEM-11053 CLIENT: J/V METKA S.A. - ETADE S.A.

PUBLIC POWER CORPORATION THERMAL PROJECTS

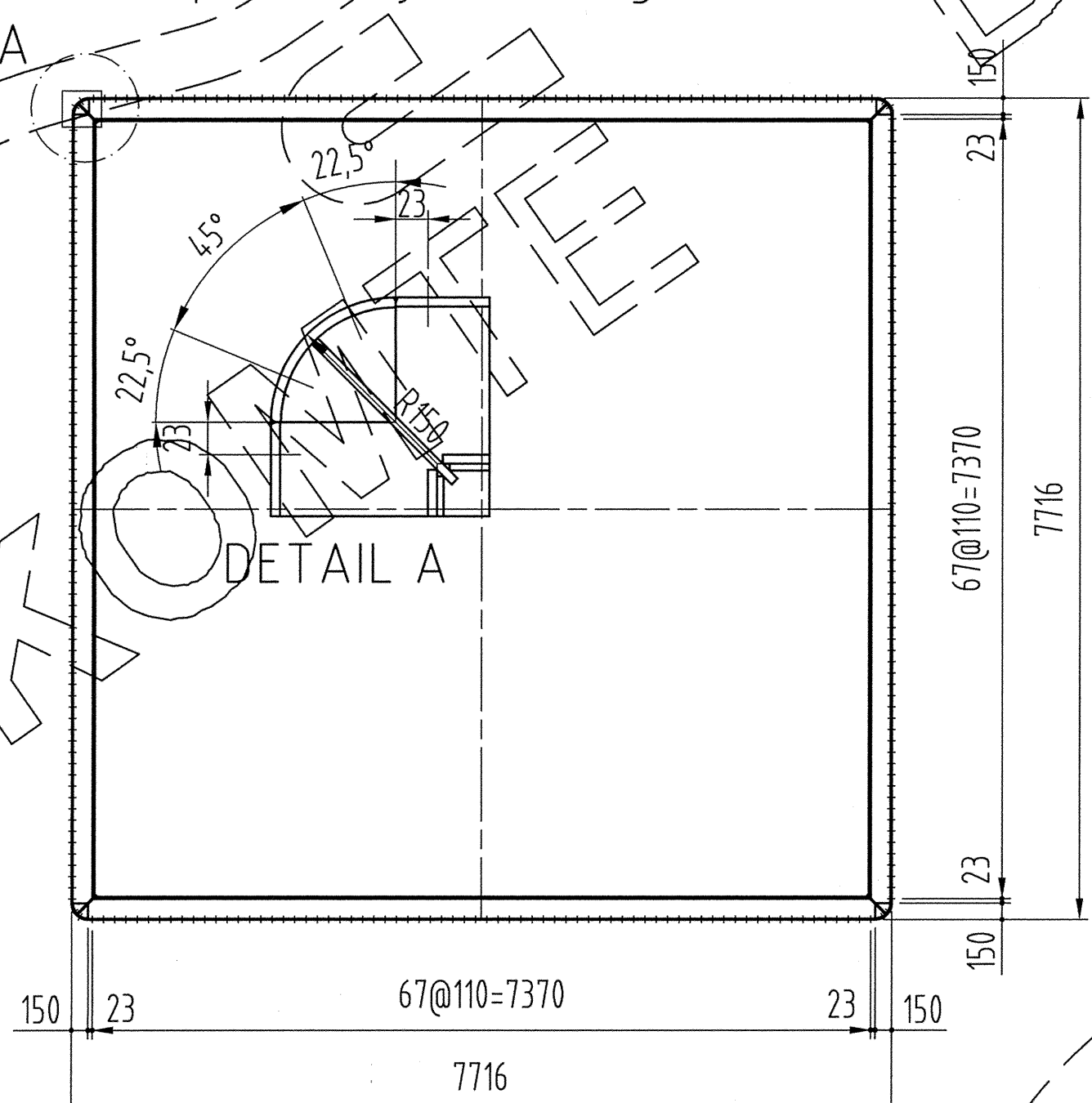


Expansion Joint Layer Composition

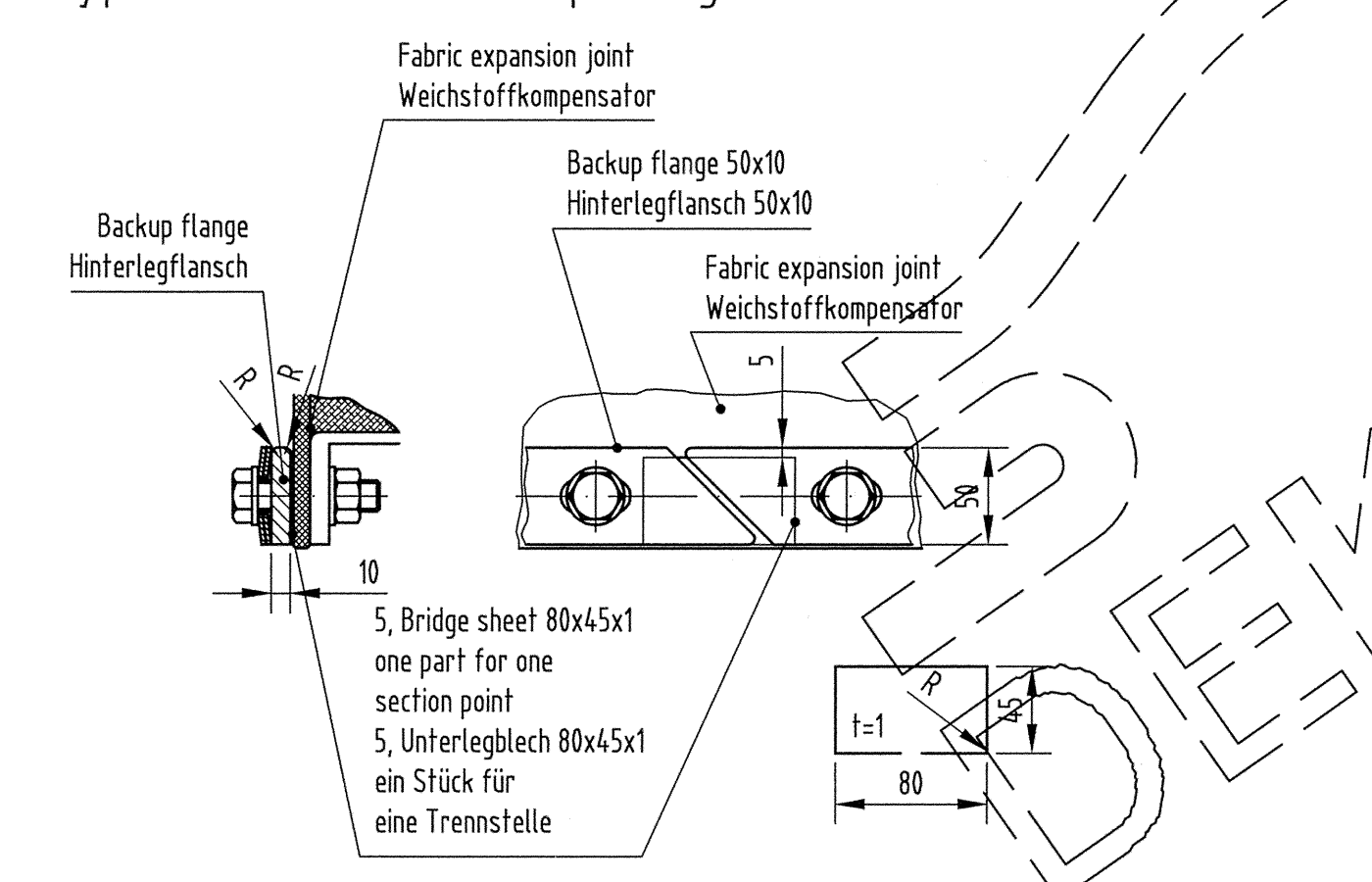


SECTION A-A
NOTE:
Fabric expansion joint second side punched on installation Backup flange
280 x slotted holes 18x36 mm

Hole pattern Diverter & Bypass Stack Expansion joint flange



Typical section of backup flanges



Betriebsbedingungen / working conditions

Medium: Abgas, Rauchgas / flue gas		
Betriebs-/operating temperature [°C]: 617	Auslegungstemp./design temperature [°C]: max. 671,7	
Umgebungstemp./ambient temperature [°C]: -11 ... +41	Geschwindigkeit/velocity [m/s]: 37,5	
Auslegungsdruck statisch/design pressure static [mbar]: -20 / +75	Druck kurzzeitig/pressure short-term [mbar]: 5	
Bewegung axial Z/movement axial Z [mm]: -25	Vorspannung axial Z/preset axial Z [mm]: 0	
Bewegung lateral Y/movement lateral Y [mm]: ±10	Vorspannung lateral Y/preset lateral Y [mm]: 0	
Bewegung lateral X/movement lateral X [mm]: ±10	Vorspannung lateral X/preset lateral X [mm]: 0	
Leitblech/reflector: ja / yes (by NPS)	Isolation/insulation: ja / yes	
Dichtheitsgrad/tightness: rauchgasdicht nach RAL - TI 002	flue gas tight according RAL - TI 002	

Toleranzzugabe ±20mm axial und ±20mm lateral
tolerance of ±20mm axial and ±20mm lateral

5	56	Unterlegbleche EJB8	80 x 45 x 1	1.0038	galvanized delivered 65 pcs.
4	560	Verschraubung EJBc	M16x70	8.8	hot dip galvanized delivered 600 pcs.
3	2	Hinterlegflansch EJBb	50x10	1.0038	feuert verzinkt
2	1	Back up flange EJBb	St37		hot dip galvanized
1	1	Weichstoffkompensator	siehe Zeichnung	DKT-Norm 666-03-XX-XX	offen, 2-teilig, 1 Seiten gel. open, 2-part, 1 sides punch
		Fabric expansion joint	siehe Zeichnung	DKT-Norm 500-21-05-2-05	offen, 1-teilig, 1 Seiten gel. open, 1-part, 1 sides punch

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Waldmühlstr. 15, D-65549 Seligenlauff
Tel.: +49(0)6182/21014 Fax: +49(0)6182/21014-00

Maße ohne Toleranzangabe nach DKT-QM-FB 10.2, DIN EN ISO 1920/B, DIN ISO 2768/C
Where tolerances not stated DKT-QM-FB 10.2, DIN EN ISO 1920/B, DIN ISO 2768/C

Projekt/projekt: CCPP Megalopolis UNIT V Unit 1; 2
GE MS9001FA/9FA, EJB08

Benennung: DEKOMTE KOMPENSATOR
TYP 10G

DEKOMTE EXPANSION JOINT
TYPE 10G

Zeichnungsnummer / drawing no.: 11088489-EJB08

Rev. Änderung/revision Datum/date Ursprung 88904-EJB09-A

Rev. Änderung/revision Datum/date Ursprung 88904-EJB09-A

Proj. Name: NEM POWER-SYSTEMS
Sibylla-Merian-Strasse 3
40665 RECKLINGHAUSEN / GERMANY

Field Installation Drawing
Expansion Joint Outlet Bypass (EJB08)

11304-06-0500

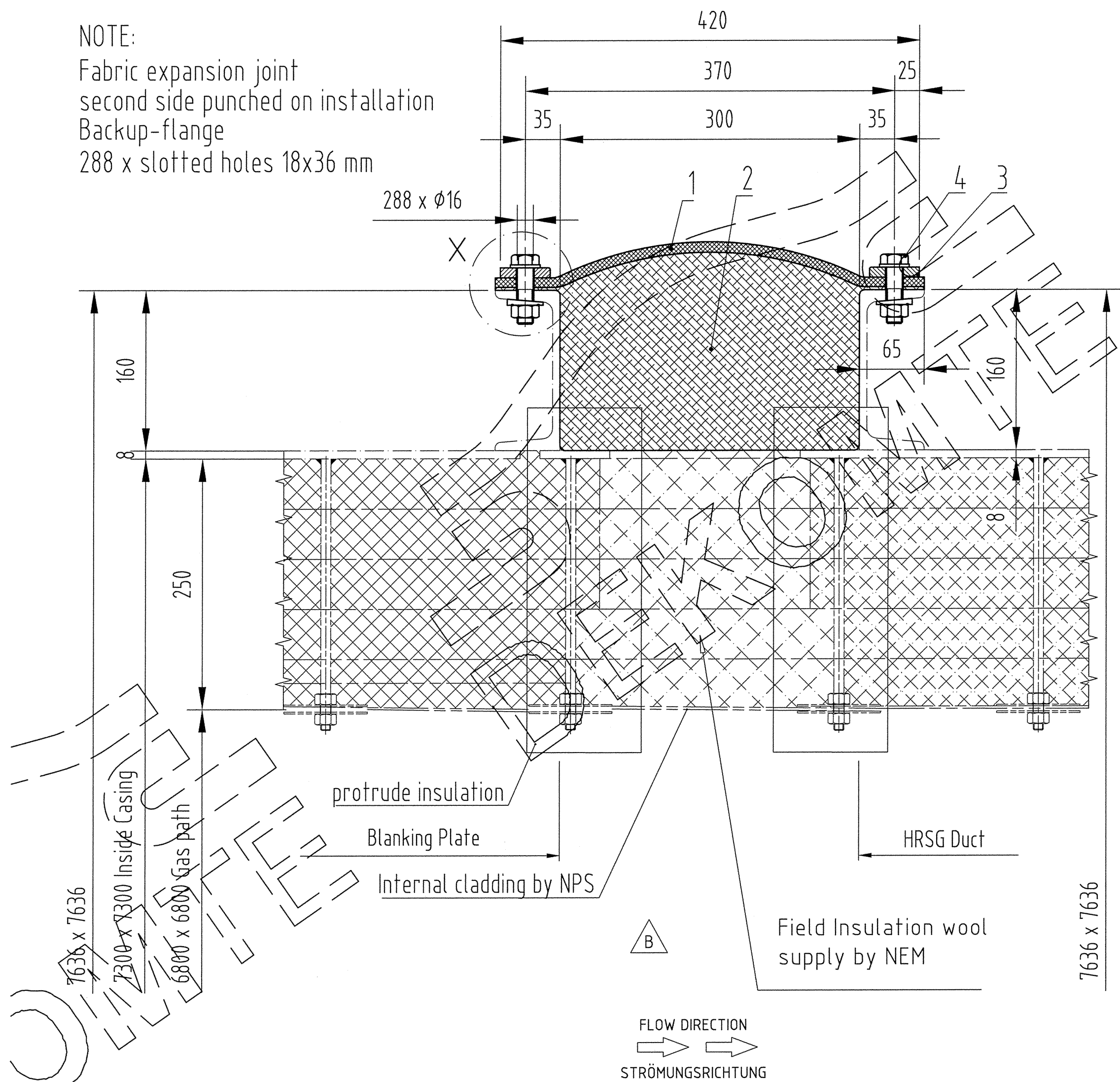
KKS: 11/12MBR10BR01

Beachte:
Bei Montage der Ecken Kompensatoren ausrichten.
Verflanschung von Ecken aus beginnen.
First align expansion joint at corners.
Start mounting back up flanges at corners.

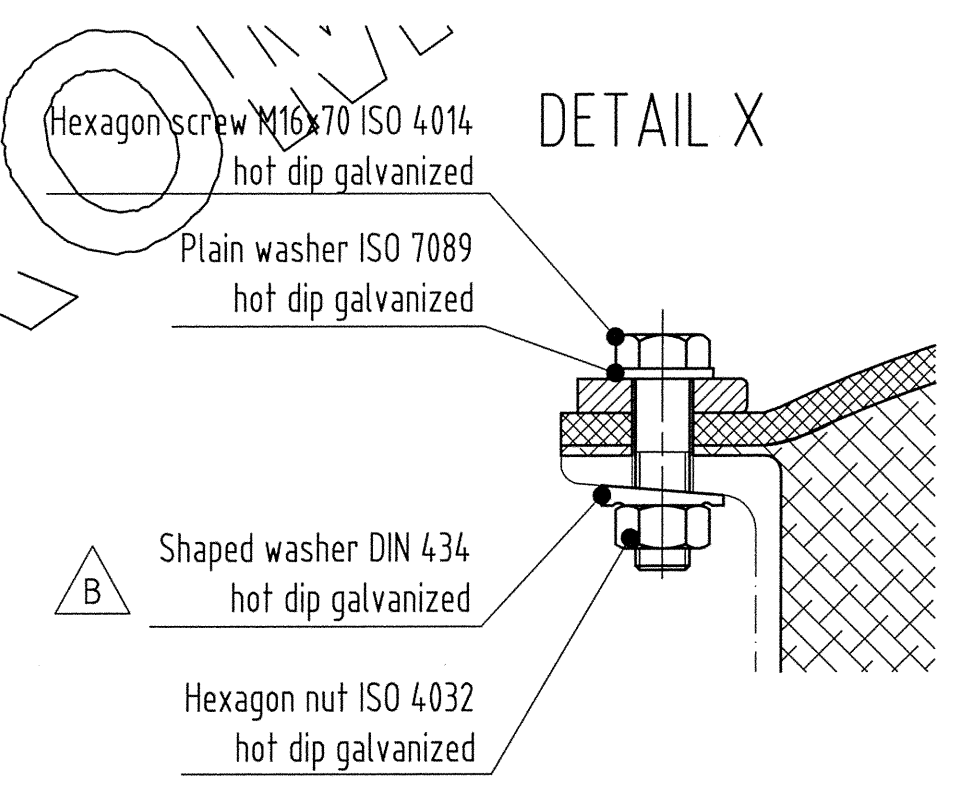
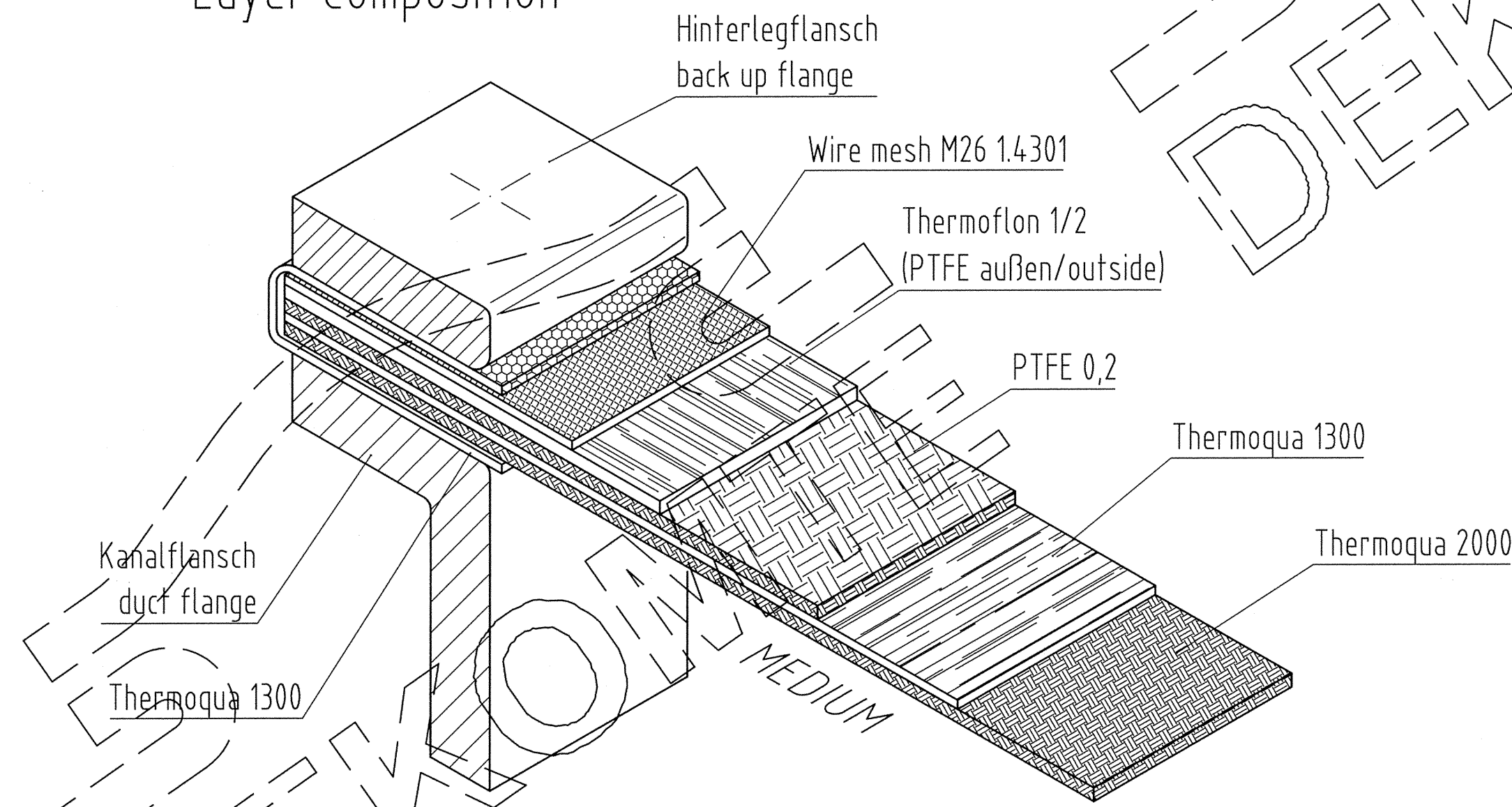
21033-01-0515	Field Assembly Drawing Bypass Side Guide Plates			
21033-00-0100	Exhaust Bypass System General Arrangement Drawing			
Drawing no.	Description			
Reference drawings				
REVISION DESCRIPTION	DESIGNATION	ITEM NUMBER	CLIENT	J/V METKA S.A.
FOR INFORMATION	EQUIPMENT	MBR10	PROJECT	MEGALOPOLIS V
JRD PARTY	TITLE		PROJECTION METHOD	SCALE
REVIEW A.1	FIELD INSTALLATION DRAWING		A1	1:5
APPROVED	JBE	04-APR-2011	EXPANSION JOINT OUTLET BYPASS (EJB08)	SHEET 1 / 1
CHECK 2	JBE	31-MAR-2011		
CHECK 1	JBE	30-MAR-2011		
ISSUED	DEKOMTE	30-MAR-2011	PROJECT	PBS
INTERNAL DRAWING STATUS	APPROVED	21033	DRAWING NUMBER	REV
PROJECT:	CCPP MEGALOPOLIS UNIT V	CONTRACT No.:	06-0500	0
KKS DOCUMENT NO.:	443-11-H-ODM-NEM-11054	CLIENT:	11 07 2251	
	443-12-H-ODM-NEM-11054			

SECTION A-A

NOTE:
Fabric expansion joint
second side punched on installation
Backup-flange
288 x slotted holes 18x36 mm



Expansion Joint Layer Composition



Betriebsbedingungen / working conditions

Medium: Abgas, Rauchgas / flue gas	
Operating temperature [°C]: 617	Design temperature [°C]: max. 671,7
Ambient temperature [°C]: -11 ... +41	Velocity [m/s]: 37,5
Design pressure static [mbar]: -20 / +75	Pressure short-term [mbar]: 5
Axial movement [mm]: -25	Axial pre-tension [mm]: 0
Lateral movement Y [mm]: ±15	Lateral pre-tension Y [mm]: 0
Lateral movement X [mm]: ±15	Lateral pre-tension X [mm]: 0
Deflector: ja / yes (by NPS)	Insulation: ja / yes
Flue gas tight according RAL - TI 002	

Toleranzzugabe ±20mm axial und ±20mm lateral
tolerance of ±20mm axial and ±20 lateral

Pos. Item	Stück quant.	Benennung	Abmaße dimension	Werkstoff material	Menge quantity	Material	Weight	Remarks
5	56	Unterlegbleche EJ9b1	80 x 45 x 1	1.0038		galvanized		delivered 65 pcs.
4	576	Verschraubung EJ9c	M16x70	8.8		hot dip galvanized		delivered 600 pcs.
3	2	Hinterlegflansch EJ9b	50x10	1.0038		Feuerverzinkt		hot dip galvanized
2	1	Vorisolations EJ9a	siehe Zeichnung	DKT-Norm		offen, 2-teilig, 1 Seiten gel		
1	1	Weichstoffkompensator	siehe Zeichnung	DKT-Norm		offen, 1-teilig, 1 Seiten gel		

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DEKOMTE
DEKOMTE de Temple GmbH
Walnutstr. 13, D-63500 Seligenstadt
Tel.: +49(0)6182/21014 • Fax: +49(0)6182/21014-00

Project/Projekt: CCPP Megalopolis UNIT V, Unit 1, Z MS900 IFA/9FA, EJ09

Benennung: DEKOMTE KOMPENSATOR TYP 10G

Material: E J09

Scale: NTS

Name/Name: DEKOMTE EXPANSION JOINT TYPE 10G

Date/Date: 01.04.2011

Author/Author: Lorant

Rev.	Änderung/revision	Datum/date	Name	Ursprung	8890A-EJ09-A	Projektionsmethode 1 first angle projection method	110884.89-EJ09	Revisur	B/1
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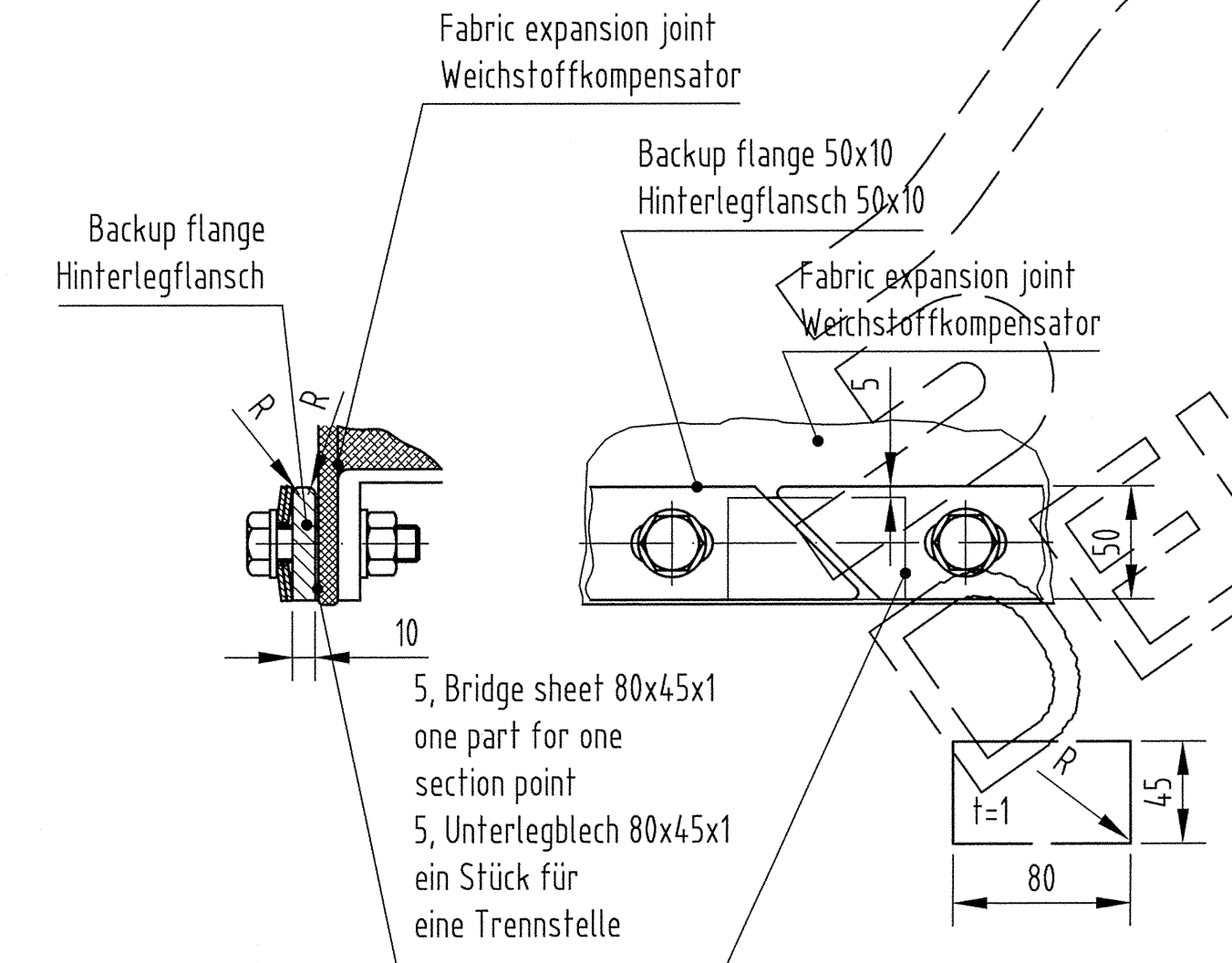
Maße ohne Toleranzangaben: N-27-0100a

Schweißtoleranzen: DIN EN ISO 5817 C

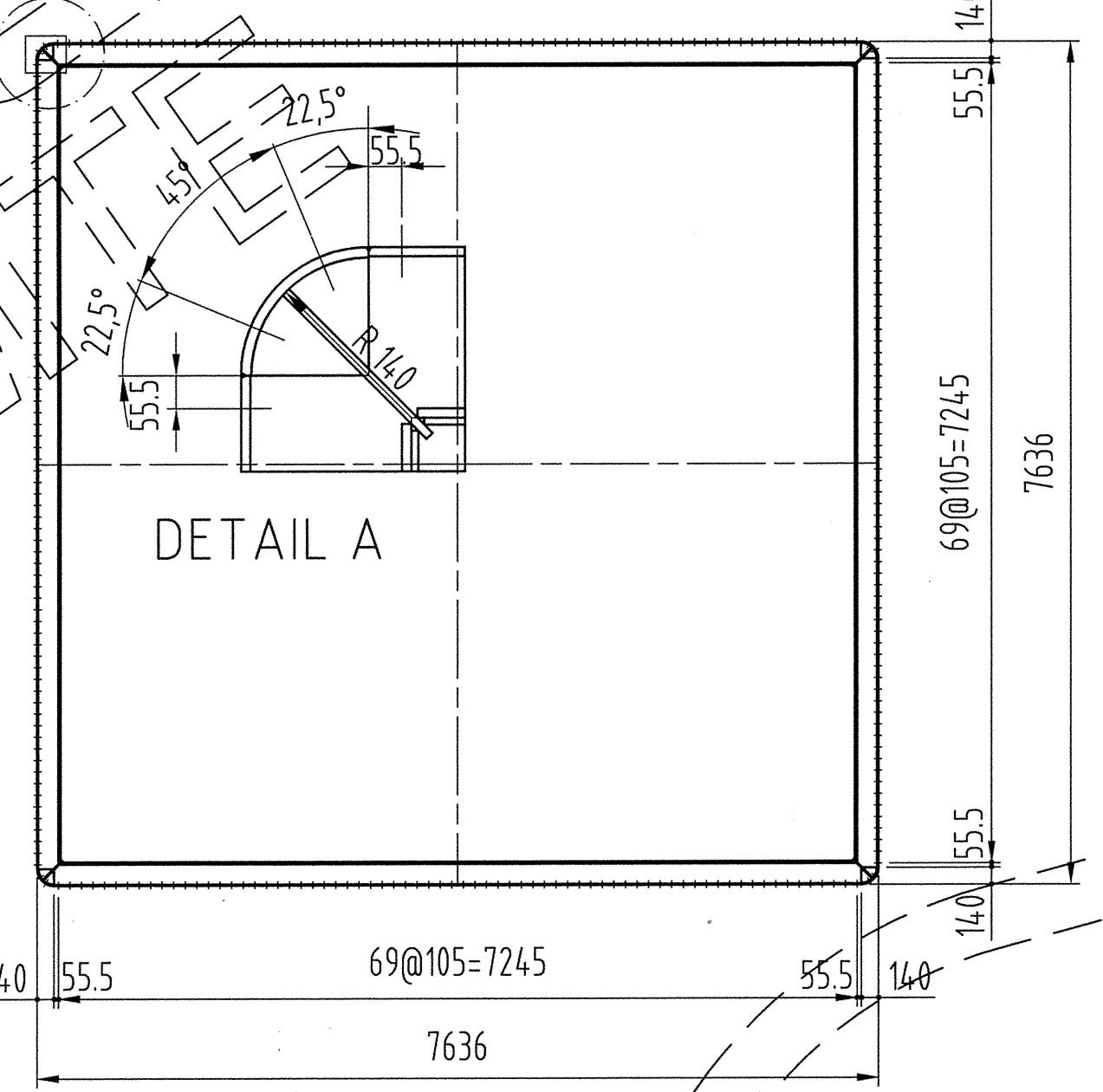
Projektdesign: NEM POWER-SYSTEMS
Sibylla-Merian-Strabe 3
40668 RECKLINGHAUSEN / GERMANY
Tel: +49(0)2361 1304-15-0500

Field Installation Drawing
Expansion Joint Outlet HRSG (EJ09)

Typical section of backup flanges



Hole pattern Diverter Damper & HRSG Duct Expansion joint flange



KKS: 11/12MBR10BR013

Beachte:
Bei Montage der Ecken Kompensatoren ausrichten.
Verflanschung von Ecken aus beginnen.
First align expansion joint at corners.
Start mounting back up flanges at corners.

REVISION-DESCRIPTION	DESIGNATION	ITEM NUMBER	CLIENT	J/V METKA S.A.
FOR INFORMATION	EQUIPMENT	MBR10	PROJECT	MEGALOPOLIS V
3RD PARTY	TITLE		PROJECTION METHOD	SCALE
APPROVED	JBE	04-APR-2011	A1	1:5
CHECK 2			SHEET 1 / 1	
CHECK 1	JBE	31-MAR-2011		
ISSUED	DEKOMTE	30-MAR-2011		
INTERNAL DRAWING STATUS	APPROVED	21033	DRAWING NUMBER	REV
PROJECT:	CCPP MEGALOPOLIS UNIT V	CONTRACT No.:	15-0500	0
KKS DOCUMENT NO:	443-11-H-ODM-NEM-11055	CLIENT:	J/V METKA S.A. - ETADE S.A.	
	443-12-H-ODM-NEM-11055			

PUBLIC POWER CORPORATION
THERMAL PROJECTS

To avoid shaking of the splitters (potentially caused by flow turbulence), prevent from falling down and to keep them in defined position, all splitters are connected to each other, forming one system in which the centre splitter is hold in position by centring bolts (see Figure 40) whereas to outer supports have just a flat surface to allow the splitter system expanding when heated up. The centre splitters have a long hole in splitter axis to take the centring bolt, to allow for expansion in its axis direction.

ΔΙΑΣΤΟΛΙΚΑ

2.6 Expansion joints

2.6.1 Design



Refer to Drawing / Documents: Exhaust Bypass System Expansion Joints Data Sheets

Project No.: 443-11-H-MHP-NEM-10004

NEM No.: 21033-00-0817 (NPS 11304-00-0817)

Status: **To be issued later**

Expansion joints are used to absorb the axial and lateral expansion of ductwork due to operation conditions such as temperature, and to absorb fabrication and erection tolerances of such ductwork.

One expansion joint (EJ08) is installed between the diverter outlet to bypass stack flange and the bypass stack inlet flange, absorbing the vertical movement between the diverter vertical fix point (at support elevation EL+0.200) and the bypass stack vertical fix point (at support elevation EL+16.200).

A second expansion joint (EJ07) is installed between the horizontal duct and the diverter damper to absorb the movement between the diverter damper axial fix point (at bypass stack centerline) and the horizontal duct axial fix point which is 1,5m downstream the interface to the GT duct.

A third expansion joint (EJ09) is installed between the blanking plate duct and the HRSG inlet duct to absorb the movement between the diverter damper axial fix point (at bypass stack centerline) and the HRSG inlet duct axial fix point which is at the second support column.

The expansion joints are fitted with a guide plate which is connected to the internal insulation liner arrangement of both neighbored duct parts. The guide plates have slot holes at the upstream side to allow for the duct movement.

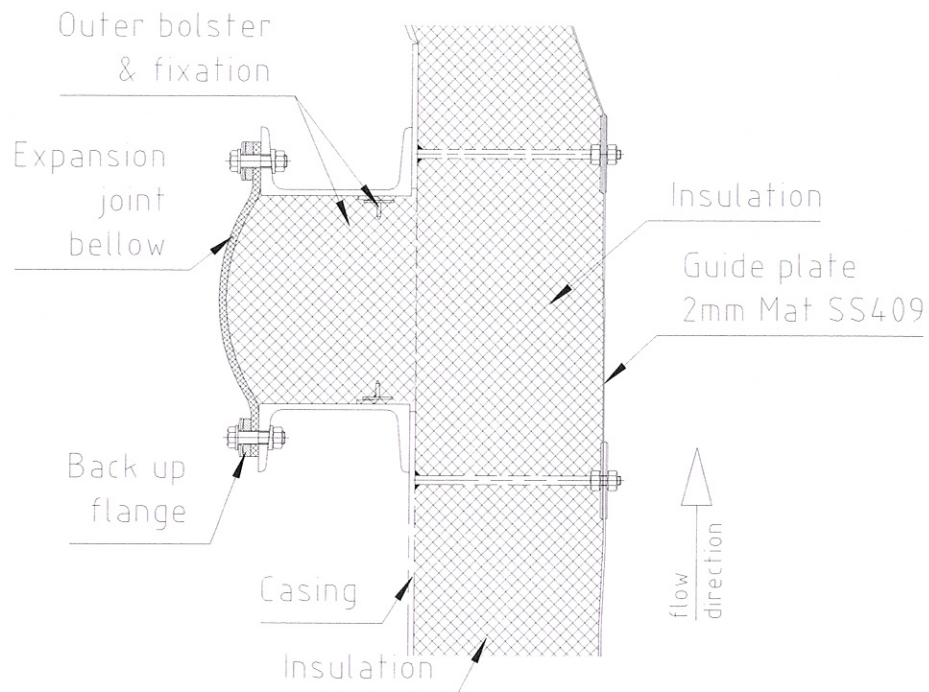


Figure 42: Expansion joint sectional view

At the inside, insulation is mounted similar to the ducting. The outer bolster contains insulation wool and is covered by a stainless steel wire mesh which is fixed to pins welded to the duct flanges (see Figure 42), which keep the bolster in place in extracted condition of the expansion joint. As the movement from cold to hot condition is always a compression of the expansion joint and the expansion joint is delivered in oversize with regard to the flange to flange gap, there is always a compressed condition of the insulation bolster and the inside insulation wool such as to prevent gaps to the casing flanges and prevent hot spots there.

The 100% tightness of the expansion joint with regard to the internal flue gas as well as the capability to mechanically withstand the internal duct pressure is achieved by the outside bellow which is a composite layer (see typical Figure 37) of glass fiber (for mechanical stability) and PTFE (for tightness). The bellow is fixed to the casing flanges by cup spring loaded bolts and by using a solid steel back up flange.

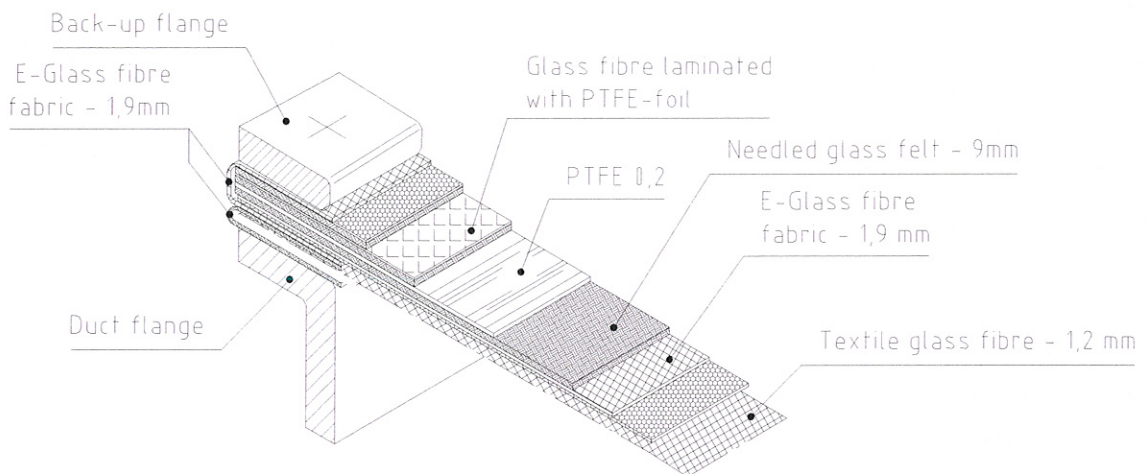
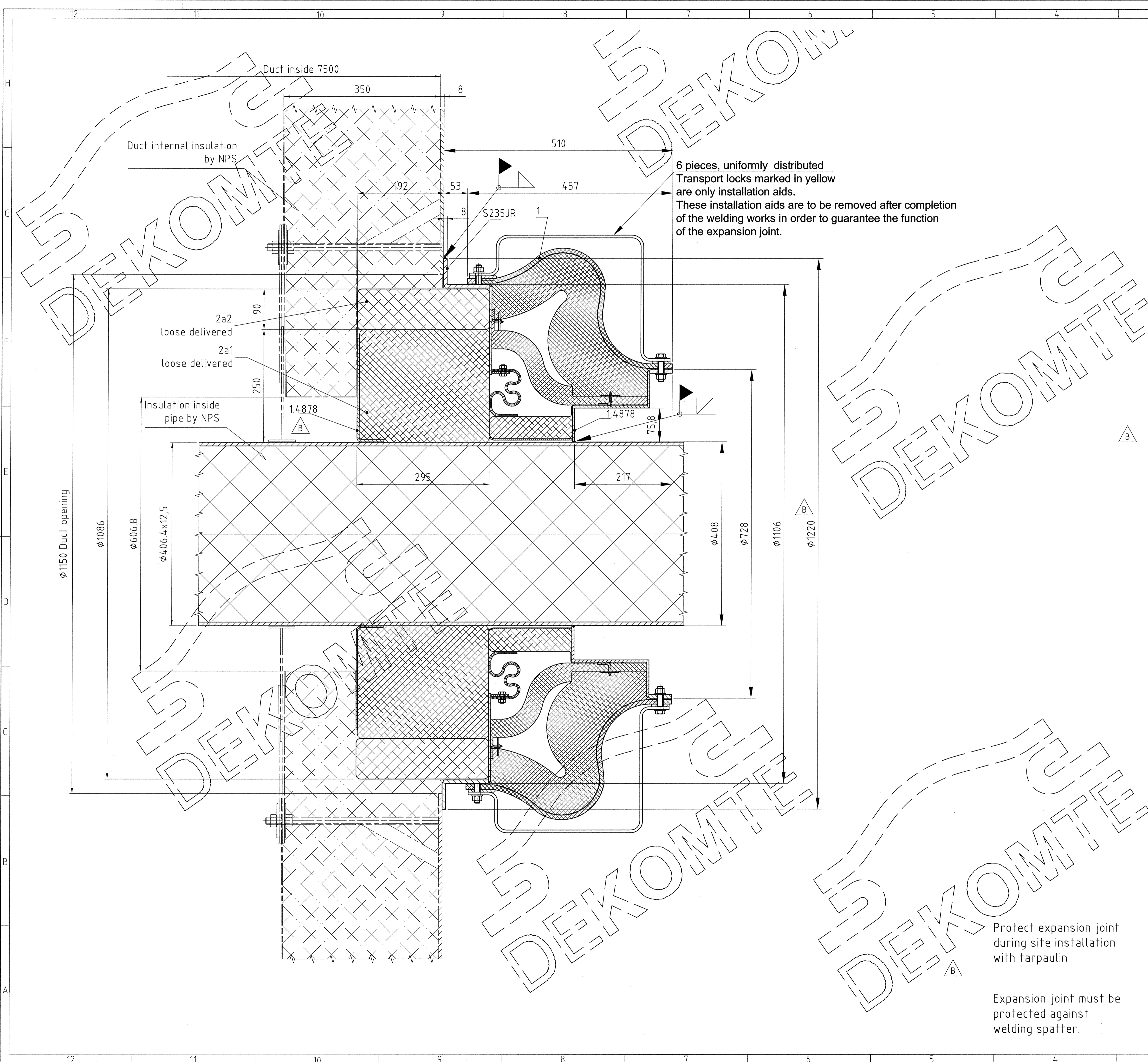


Figure 43: Expansion joint bellow composition (TYPICAL)



Betriebsbedingungen / working conditions

Medium:	Abgas, Rauchgas / flue gas	
Medium:	Abgas, Rauchgas / flue gas	
Betriebstemperatur [°C] operating temperature [°C]:	300 (617)	Ausgangstemperatur [°C] design temperature [°C]: 672
Umgebungstemperatur [°C] ambient temperature [°C]:	-11 / +41	Geschwindigkeit [m/s] velocity [m/s]: -
Auslegungsdruck statisch [mbar] design pressure static [mbar]:	-20 / +75	Druck kurzzeitig [mbar] pressure short-term [mbar]: 5
Bewegung axial Z [mm] movement axial Z [mm]:	+150	Vorspannung axial Z [mm] preset axial Z [mm]: 0
Bewegung lateral Y [mm] movement lateral Y [mm]:	+95	Vorspannung lateral Y [mm] preset lateral Y [mm]: 0
Bewegung lateral X [mm] movement lateral X [mm]:	+95	Vorspannung lateral X [mm] preset lateral X [mm]: 0
Leitblech: deflector:		Isolation: insulation: ja / yes
Dichtheitsgrad: tightness:	rauchgasdicht nach RAL, TI-002 flue gas tight according RAL, TI-002	

Item	Stück quant.	Benennung description	Abmaße dimension	Werkstoff material	Gewicht weight	Bemerkung remarks
2a2	1	Vorisolation Preinsulation	ø908xø1088x295	DEKOMTE-Norm 666-03-XX-XX		geschlossen closed
2a1	1	Vorisolation Pre insulation	ø408xø908x295	DEKOMTE-Norm 666-03-XX-XX		geschlossen, mit Blech closed, with support sheet
1	1	Einbauelement Installation	ø408xø1220x510	S235JR;14878 DEKOMTE-Norm		komplett vormontiert pre assembled

DEKOMTE
DEKOMTE de Temple GmbH
Waldmühlstr. 12, D-42599 Solingen-Stadt
Tel: +49(0)6192/21014 • Fax: +49(0)6192/21014-00

Masse ohne Toleranzangabe nach
DIN EN ISO 2768, DIN EN ISO 13700/B, DIN ISO 2768/C
Where tolerances not stated
DIN EN ISO 2768, DIN EN ISO 13700/B, DIN ISO 2768/C

Projekt/projekt:
CCPP Megalopolis UNIT V, Unit 1; 2
GE MS900IFA/9FA, Flow Grid Casing Penetration

Benennung
DEKOMTE-KOMPENSATOR
Rohrdurchführung

Zeichnungsbereich / drawing no.
11088489-AD-001

Rev. Änderung/revision Datum/date Name Ursprung 10082307-prinzip/88489-AD EDV Nr. 11088489-AD-001-B

Rev. Änderung/modification Datum/date Name

Maße ohne Toleranzangabe: N-27-0100a
Dimensions without tolerances: N-27-0100a

Schweißtoleranzen:
Welding Tolerances: DIN EN ISO 5817 C

Format: A1

30.03.2011 DEKOMTE
4666 RECKLINGHAUSEN / GERMANY

Field Installation Drawing
Flow Grid Penetration Exp. Joint

11304-11-0510

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REVISION DESCRIPTION	DESIGNATION	ITEM NUMBER	CLIENT	J/V METKA S.A.
FOR INFORMATION	EQUIPMENT	MBR10	PROJECT	MEGALOPOLIS V
3RD PARTY	TITLE		PROJECTION METHOD	FORMAT SCALE
REVIEW A.1	FIELD INSTALLATION DRAWING		A1	1:5
APPROVED JBE 04-APR-2011	FLOW GRID PENETRATION EXP. JOINT			SHEET 1 / 1
CHECK 2				
CHECK 1 JBE 31-MAR-2011				
ISSUED DEKOMTE 30-MAR-2011	PROJECT PBS	DRAWING NUMBER	REV	
INTERNAL DRAWING STATUS	APPROVED	21033	11-0510	0
PROJECT: CCPP MEGALOPOLIS UNIT V	CONTRACT No.:	11 07 2251		
KKS DOCUMENT NO. 443-11-H-ODM-NEM-11056	CLIENT: J/V METKA S.A. - ETADE S.A.	443-12-H-ODM-NEM-11056		

To enable the transfer of horizontal forces into the foundation as well as to define fix points in the X and Y axis and therewith allow the mentioned expansions in defined directions, three additional feet (b2, b4, b6) are located as shown in the support elevation plan view (see Figure 4).

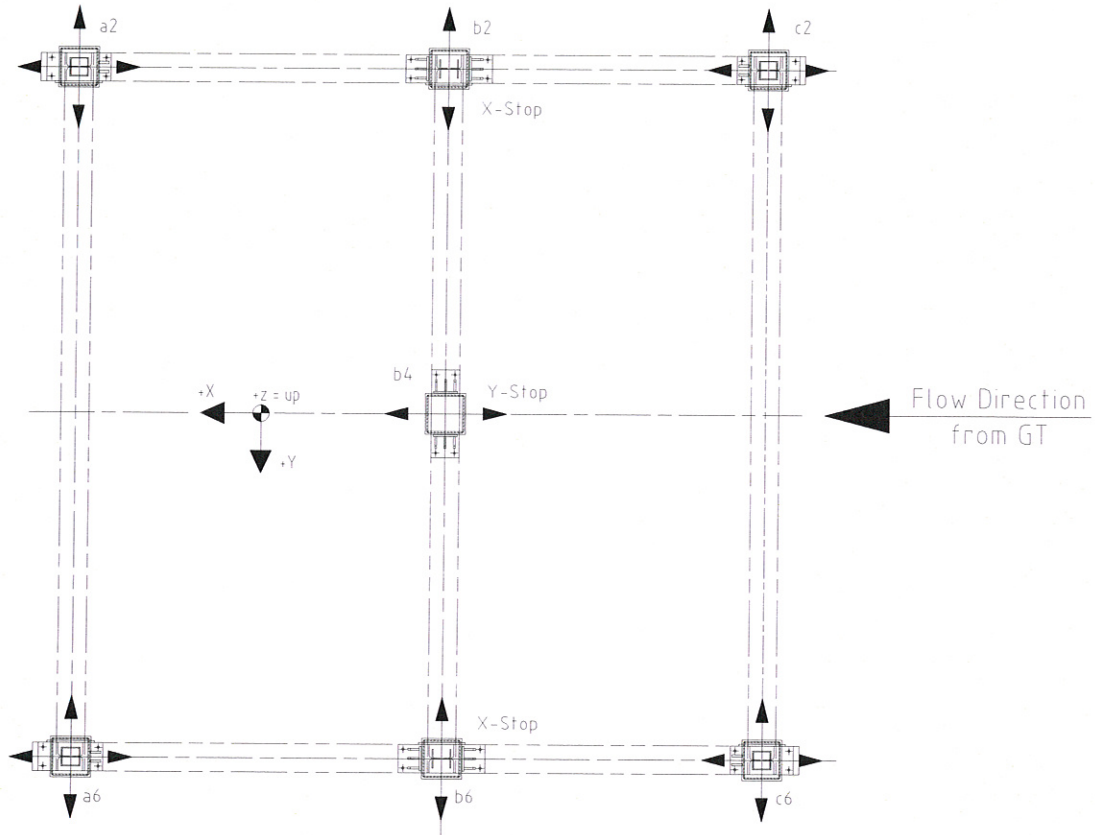


Figure 3: Diverter damper supporting feet, top view

**ΑΓΩΓΟΣ
ΠΑΡΑΚΑΜΨΗΣ
ΚΑΥΣΑΕΡΙΩΝ
(ΤΜΗΜΑ Β)**

At these 3 locations the casing feet are not in contact with the underneath support structure and therefore no vertical loads are transferred. The horizontal forces are transferred via guide brackets at the relevant sides of the feet. In order to adjust precisely, these guide brackets are to be bolted at the site to the support structure which is fixed to the foundation by anchor bolts.

2.1.3

Internal insulation

Internal insulation is applied to reduce the outside surface temperature of the damper for material strength reason, to reduce the heat loss during operation, and to allow for personnel safety. The raw thickness of provided insulation is compressed to 250 mm (see Figure 6). In areas reachable by operation personnel,

a personnel protection is added by means of installed perforated hot dip galvanized sheeting.

The studs are hand welded to the casing wall and arranged in a pitch of typically 277 x 287 mm.

The overlapping of internal liners is in the direction of the gas flow (see Figure 5). The liner thickness is 3mm for the whole diverter damper and blanking plate.

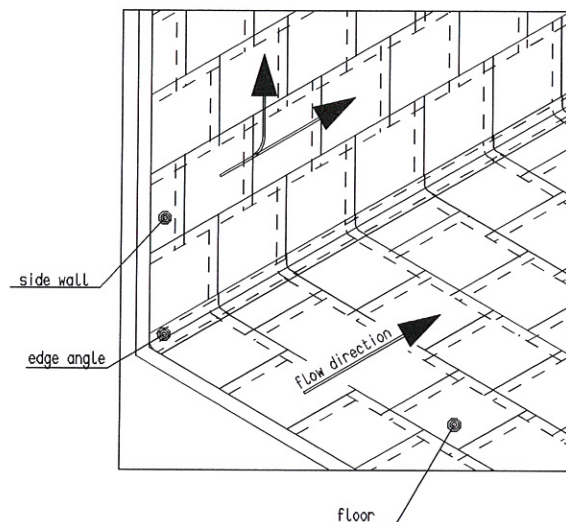


Figure 4: Overlapping direction of internal liners

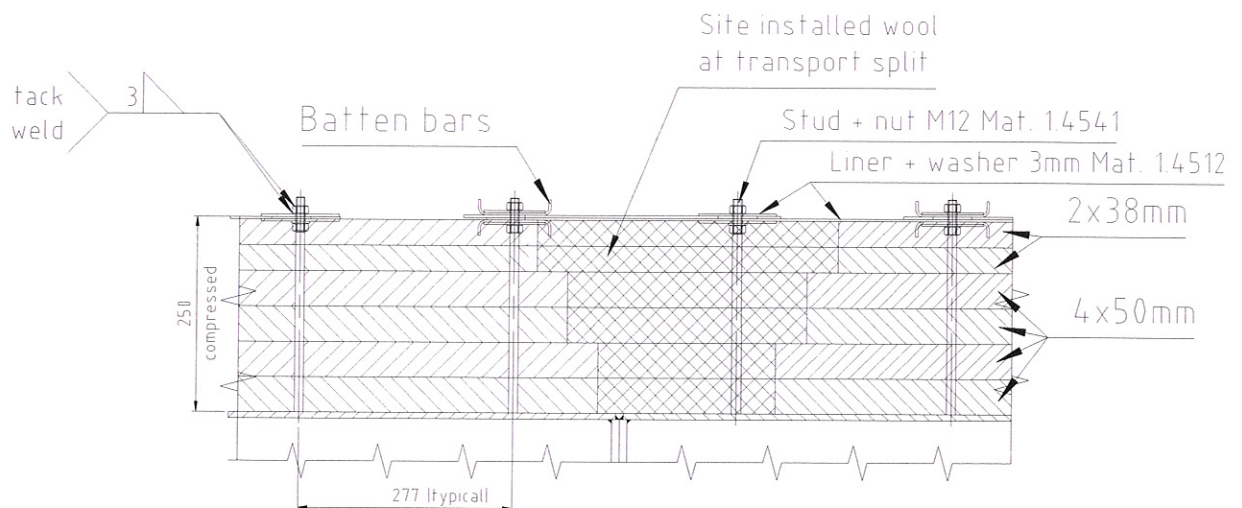


Figure 5: Sectional view of diverter damper internal insulation

The internal insulation of the blanking plate casing is of similar (250mm) design. In order to reflect the very high turbulence of the exhaust gas flow inside the diverter

damper in simple cycle operation, the overlapping areas of the insulation sheets are supported by so called “batten bars”, see Figure 6.

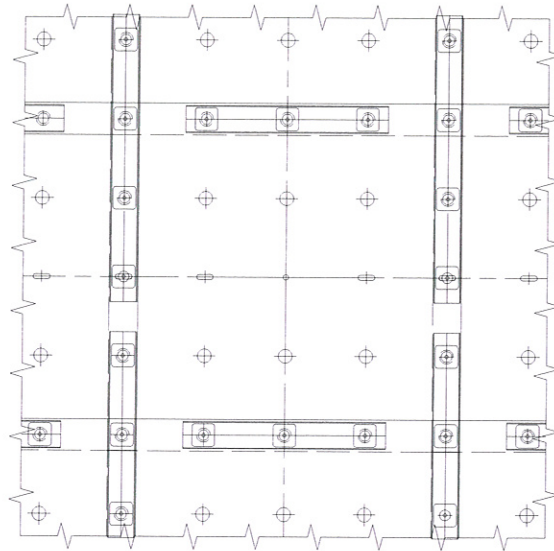


Figure 6: Batten bars at overlapping areas of insulation sheets

In order to prevent sagging of the insulation wool blankets, expanded metal stripes are placed on top of supported pins of vertical sidewalls, as shown in Figure 7.

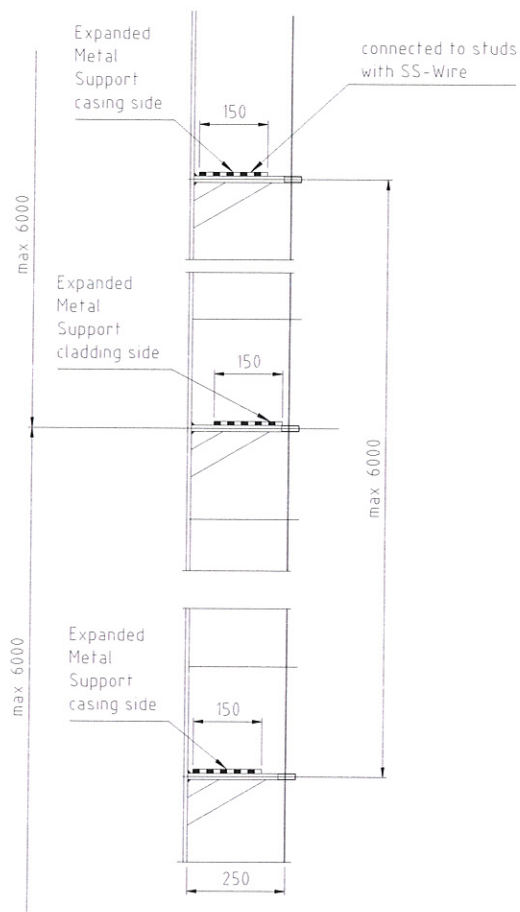


Figure 7: Expanded metal supports to avoid wool sagging

The horizontal duct is supported by own feet, arranged as per Figure 28. In order to reduce the thermal expansion towards the GT duct to a minimum, the feet acting as X-Stop (e2 and e6) are arranged as close as possible to the connection flange, only the transition piece in between (see also Figure 27). The movement limitation is achieved by brackets welded to the base plate.

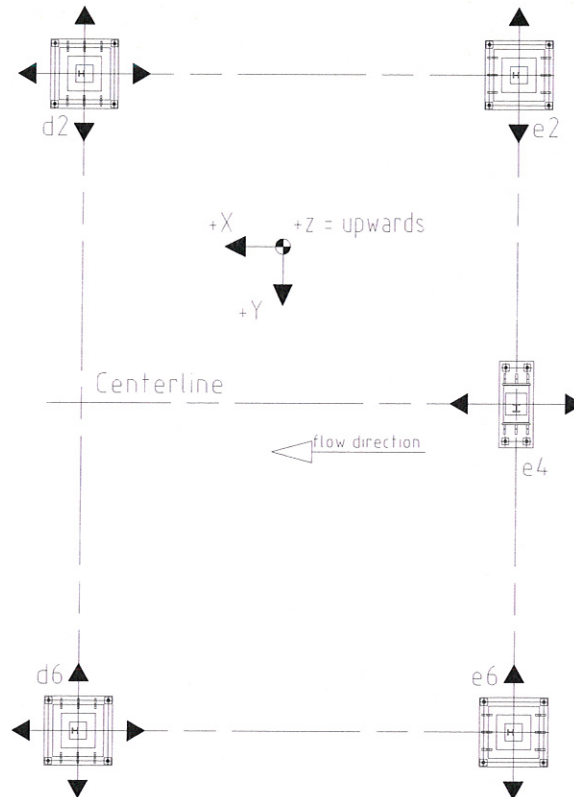


Figure 28: Horizontal duct supporting feet, top view

All corner feet are equipped with PTFE sliding pads for reduced friction during sliding.

**ΟΡΙΖΟΝΤΙΟΣ
ΑΓΩΓΟΣ ΕΞΑΓΩΓΗΣ
ΚΑΥΣΑΕΡΙΩΝ
ΑΕΡΙΟΣΤΡΟΒΙΛΟΥ
(ΤΜΗΜΑ Α)**

2.3.3

Internal insulation

The internal insulation follows the same rules like for the diverter damper (chapter 2.1.3), but the insulation thickness is different as shown in Figure 29.

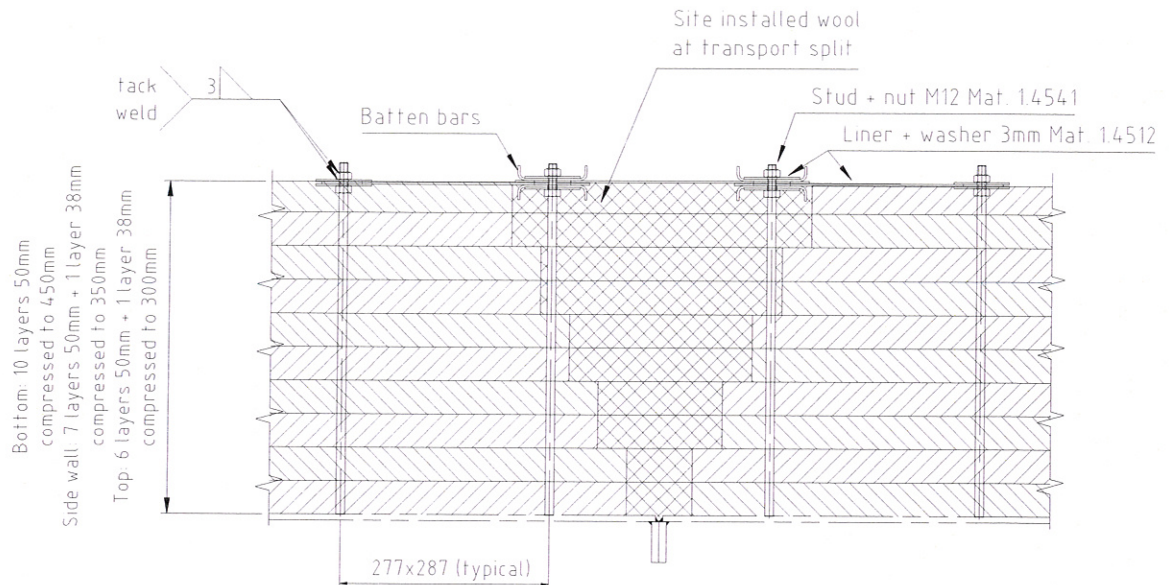


Figure 29: Insulation of horizontal duct

2.3.4 Flow Grid

The flow grid – located between the upstream gas turbine and the downstream diverter damper respectively HRSG – functions to protect the HRSG from the mountain profile coming out of the gas turbine. Initially the flow grid was designed to protect the first cooled tube bundles (superheaters), but in the Megalopolis project the first function of the flow grid is to protect the diverter blade (in simple cycle operation mode). The applied gas turbine GE109FB gas turbine has a higher exhaust profile than previously seen on other gas turbines and thus the flow grid is important to prevent damage. The flow grid approximately reduces the force a GE109FB gas turbine causes on the diverter blade to the equivalent force the blade experienced with a GE109FA gas turbine. With much effort and highest level computing for flow studies and FEM calculations NEM has proved the stability of the flow grid over its specified lifetime.

Referring to Figure 30 the flow grid consists of two horizontal 16" (Ø406mm) pipes, 4500mm vertically apart. 51 vertical 3" (Ø88,9mm) tubes are between those pipes, arranged in two rows.

2.4.3 Stack support

The bypass stack is supported at the lower edge of the silencer casing from the underneath steel structure (see Figure 33). Via a strong pair of ring stiffeners with vertical stiffener in between the stack loads are transferred to the steel structure. The fixation is by pre stressed high tensile bolting.

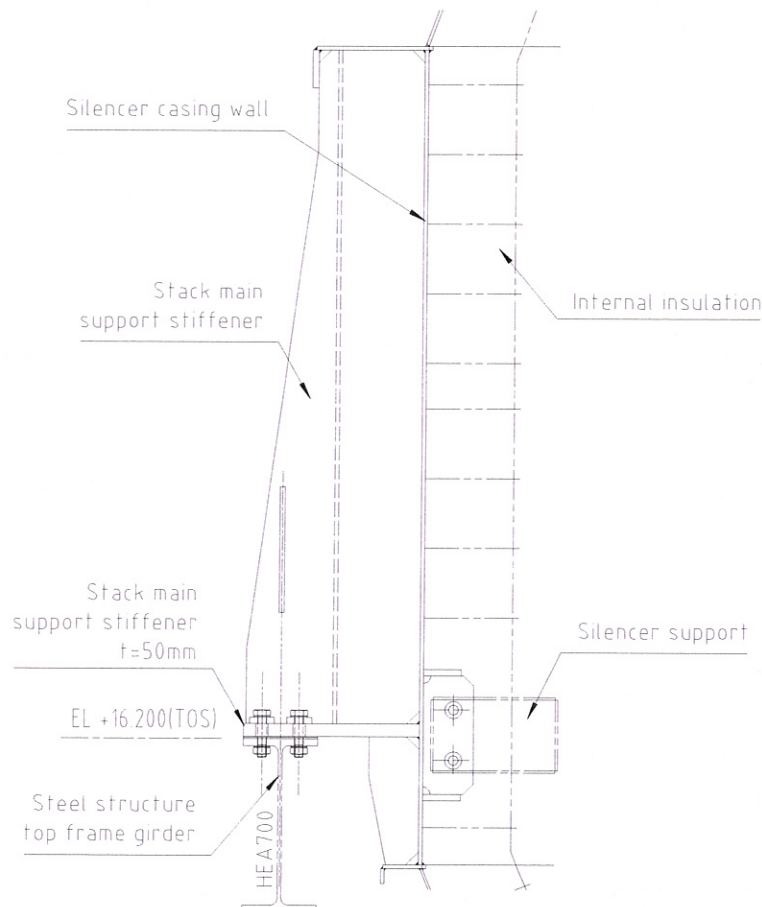


Figure 33: Bypass stack support design

**ΕΝΙΑΙΟ ΤΜΗΜΑ
ΜΕΤΑ ΤΗΣ
ΚΑΜΙΝΑΔΑΣ
ΠΑΡΑΚΑΜΨΗΣ
ΚΑΥΣΑΕΡΙΩΝ
(ΤΜΗΜΑ Δ)**

2.4.4 Internal insulation

The design of the internal insulation (see Figure 34) follows basically the same rules as for the diverter damper (see chapter 2.1.3). As difference the liner thickness is reduced to 2mm and the stud pitch is slightly bigger. Further no batten bars are required. The differences reflect the reduced turbulence of the flow when entering the bypass stack compared to the horizontal flow direction.

The liners are overlapped in flow direction for the silencer area including both transitions and in counter direction for the cylindrical stack pipe to avoid direct flow of rain underneath the insulation (see Figure 35).

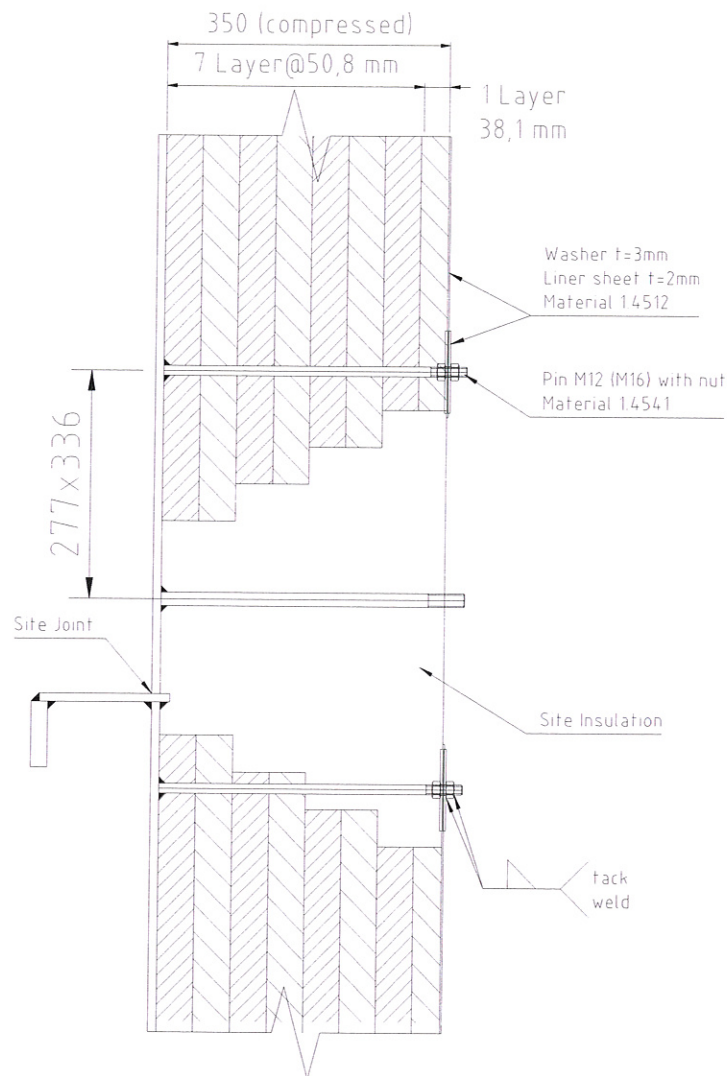


Figure 34: Bypass stack insulation

In order to avoid the direct contact of hot flue gas at the stack outlet to the casing wall, caused by potential turbulence, the stack outlet is equipped with a stainless steel hood (see Figure 30).

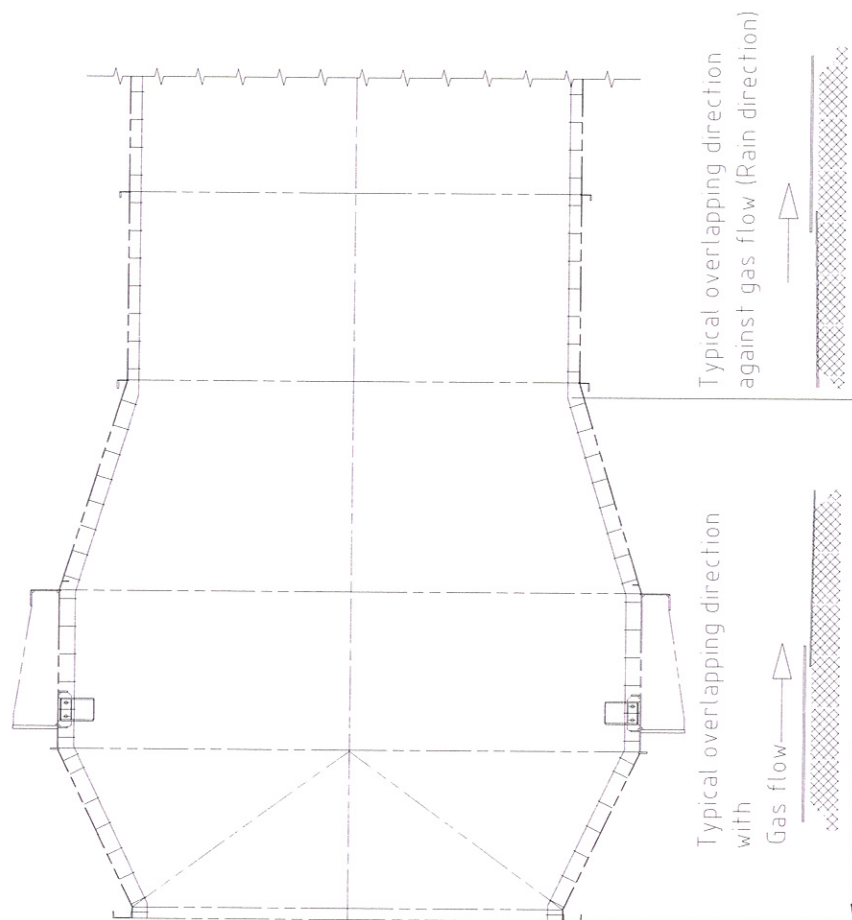


Figure 35: Overlapping for bypass stack insulation

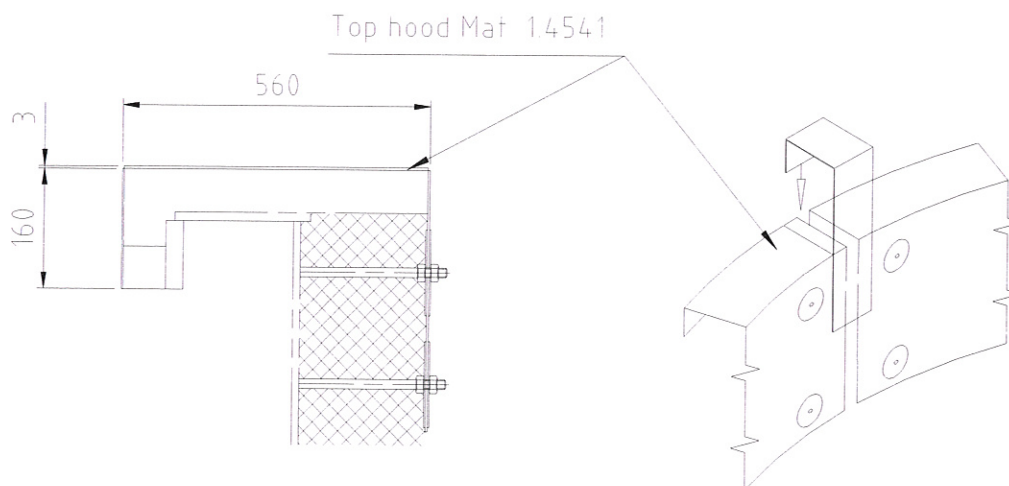
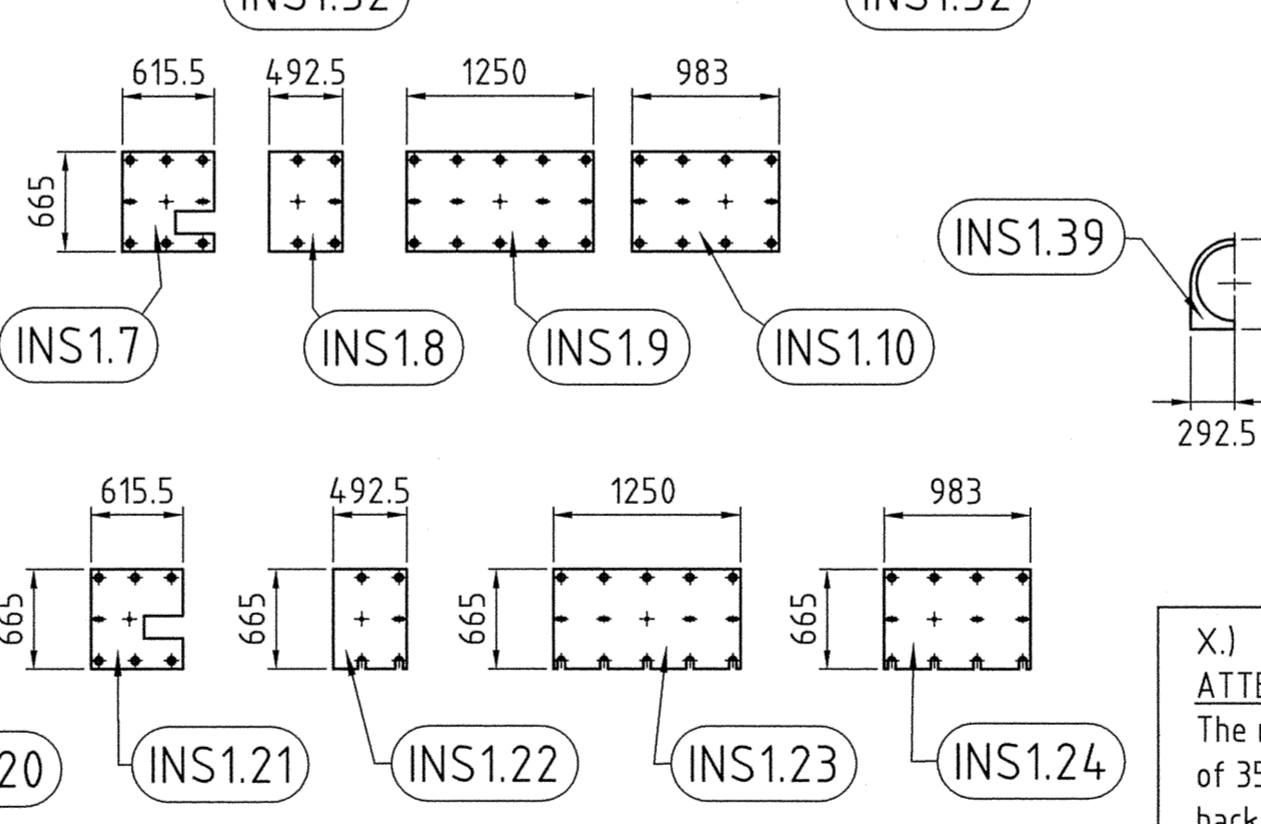
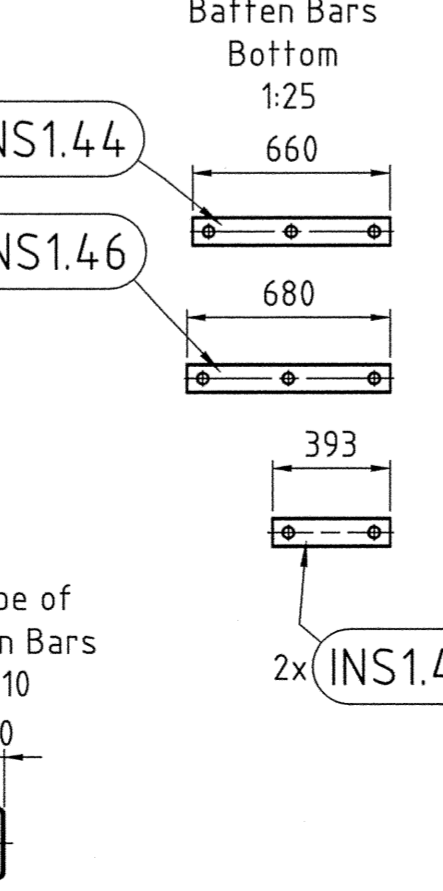
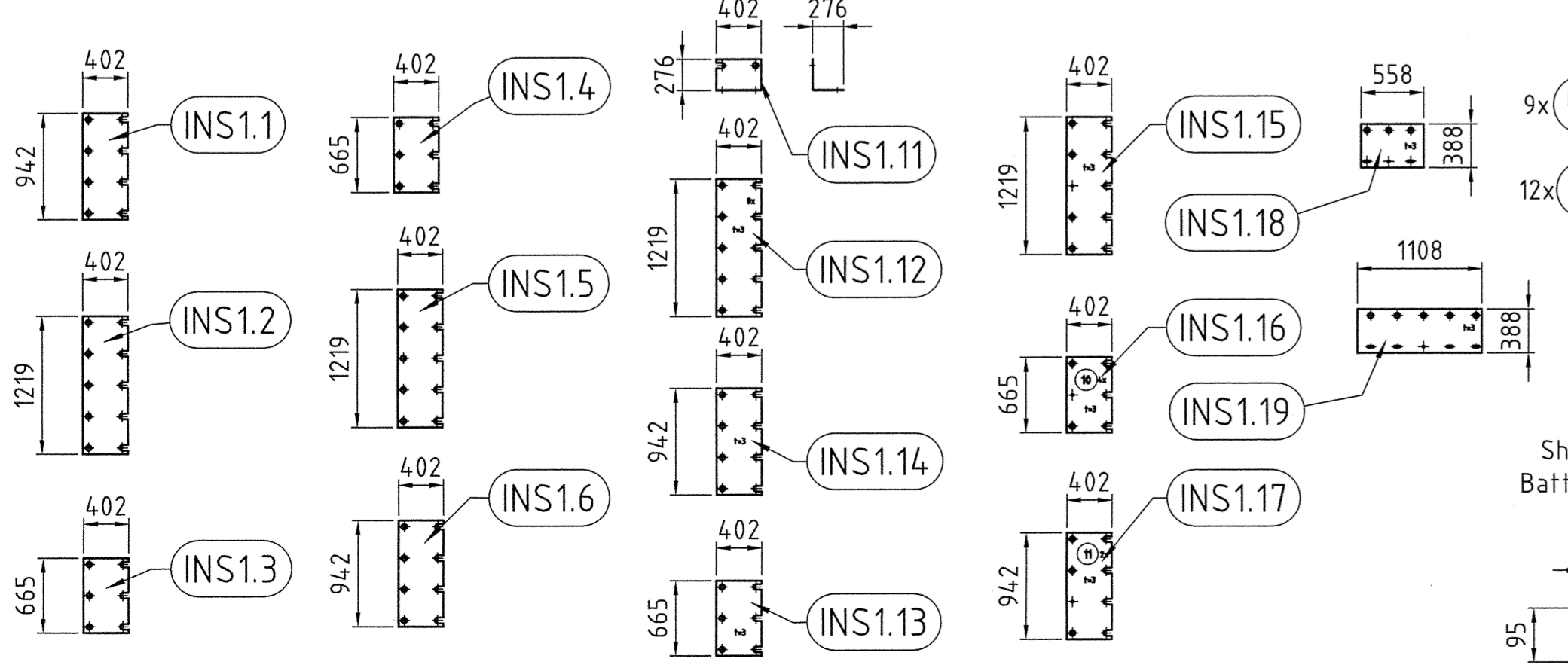
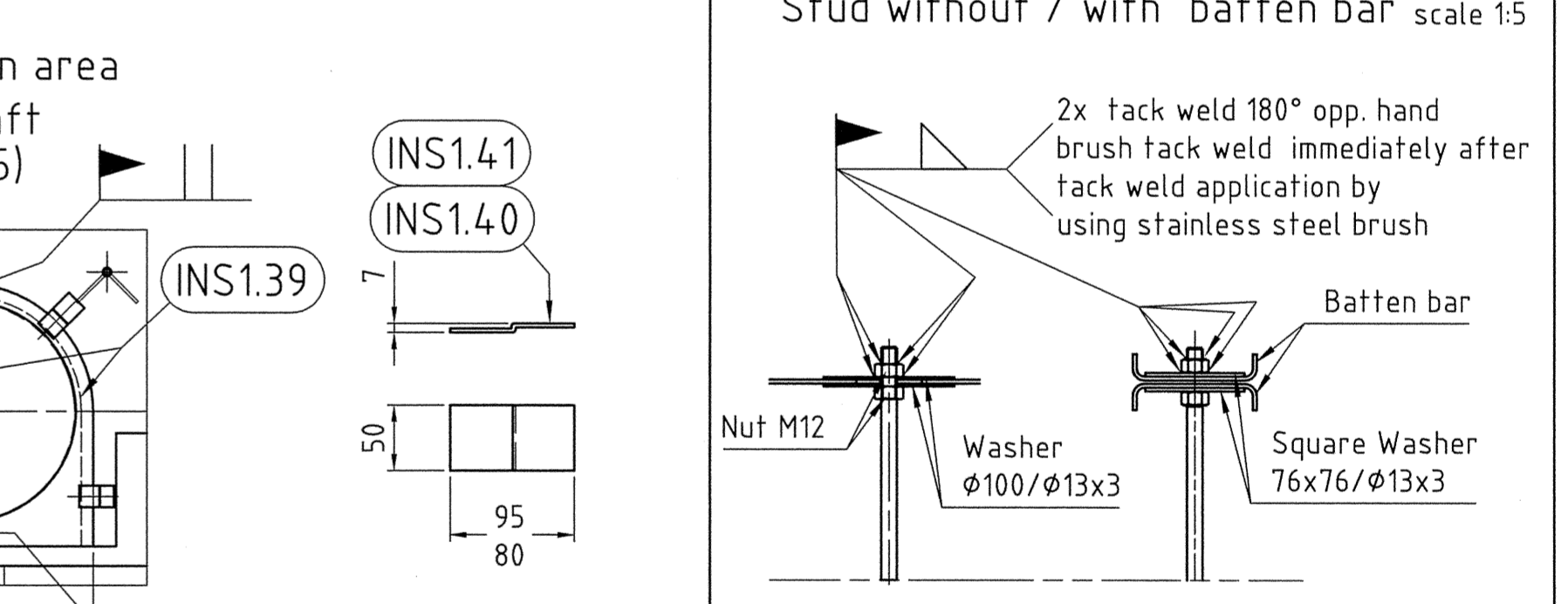
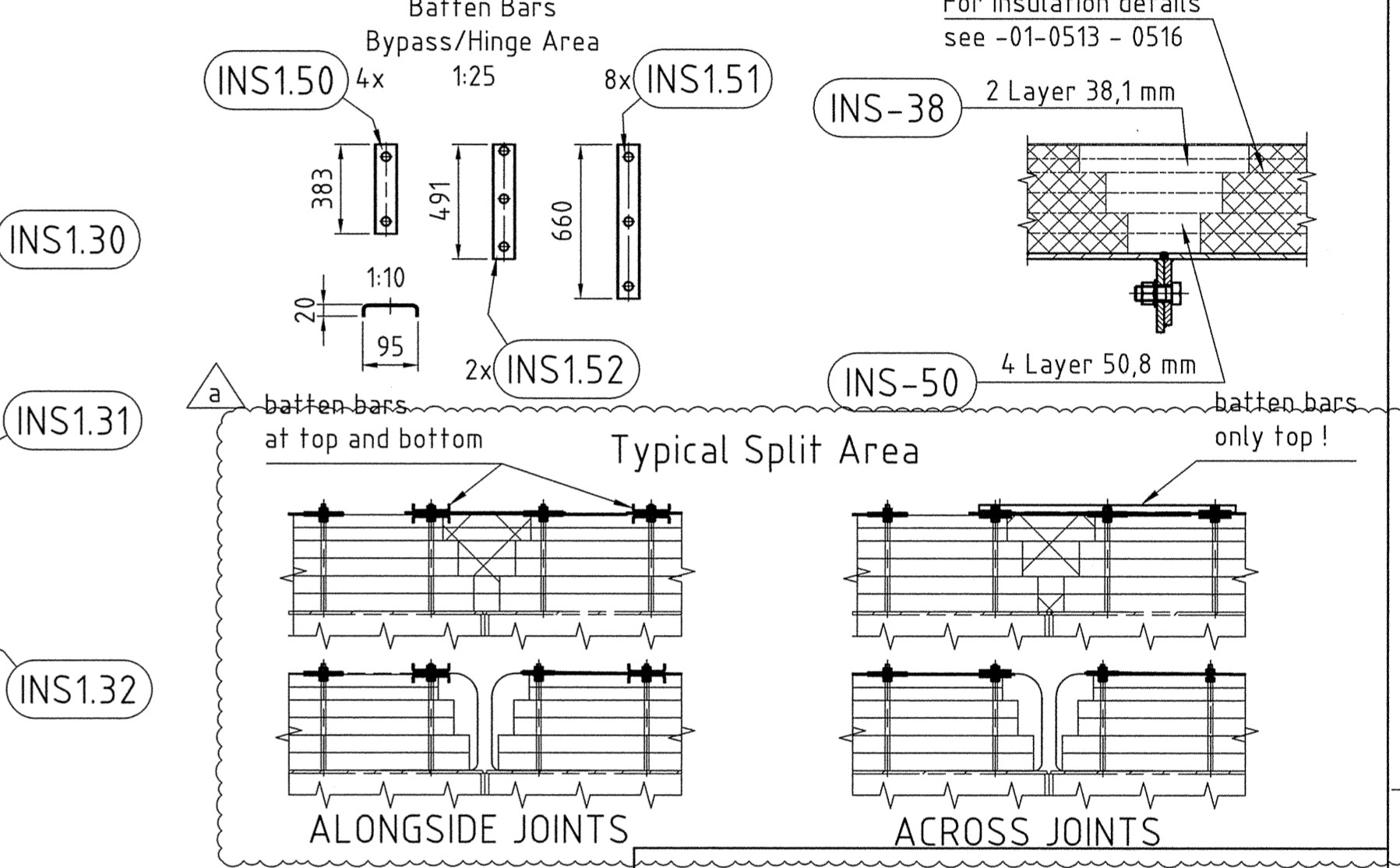
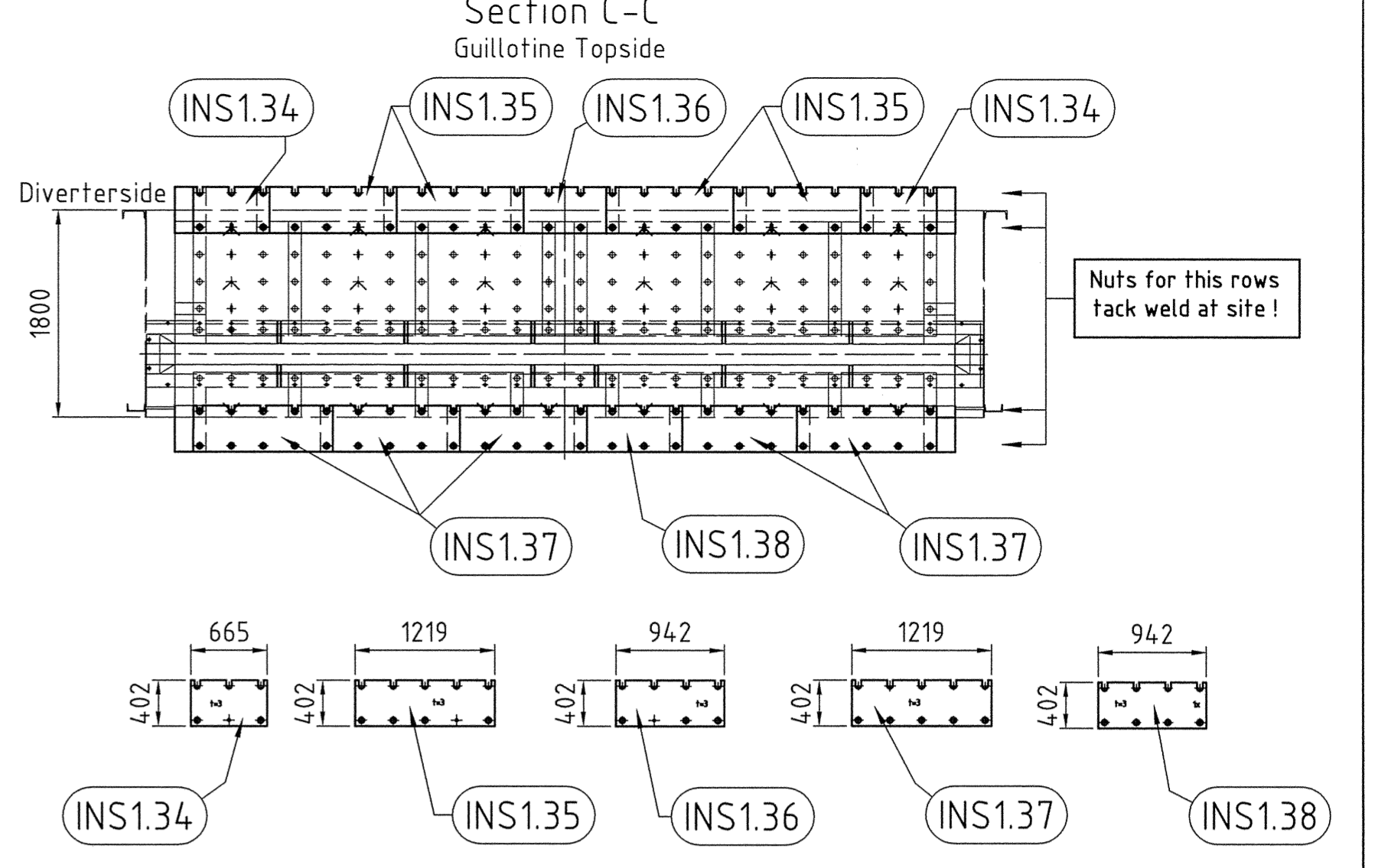
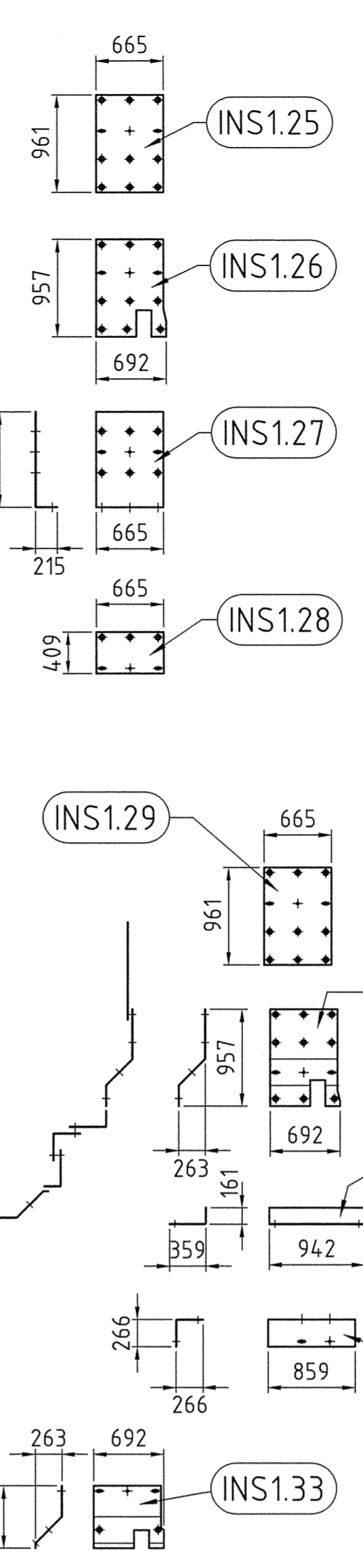
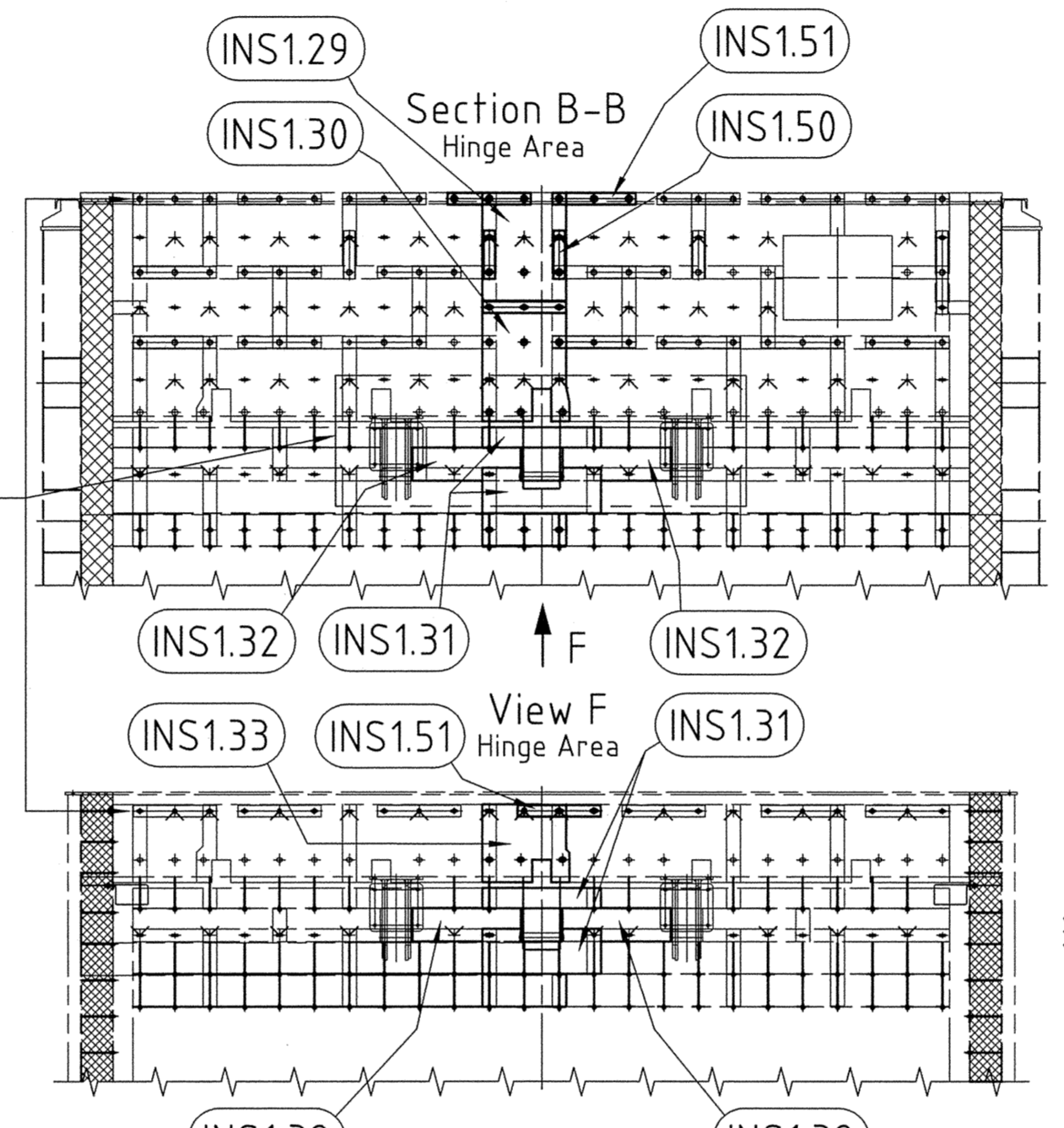
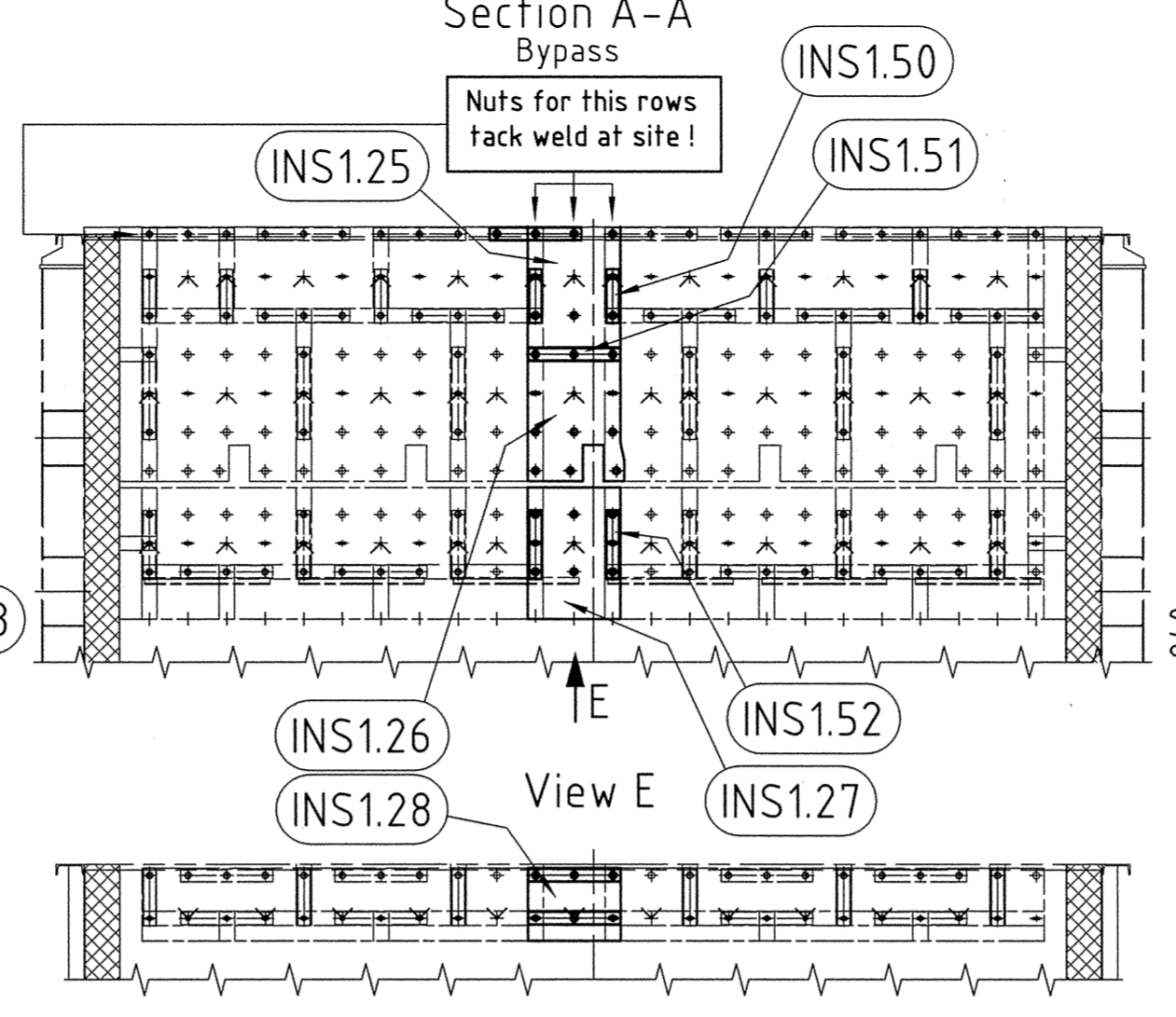
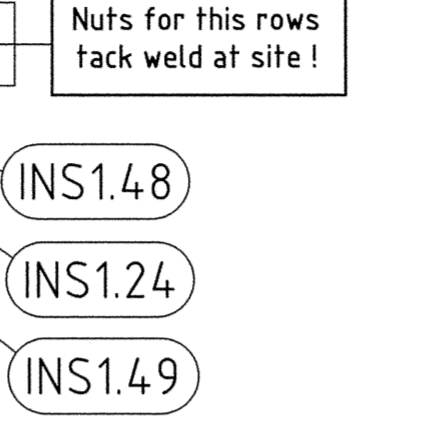
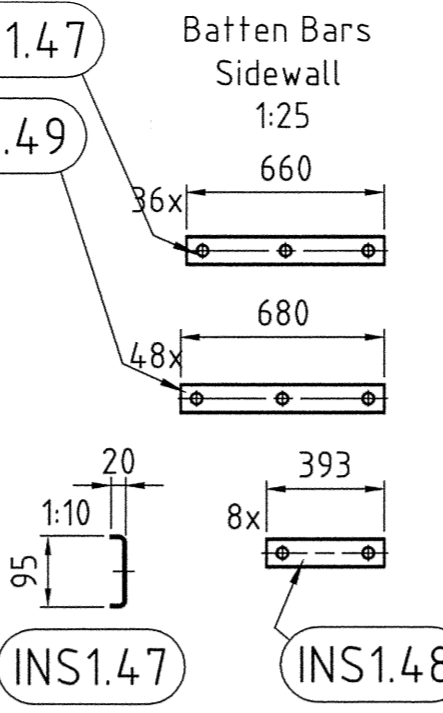
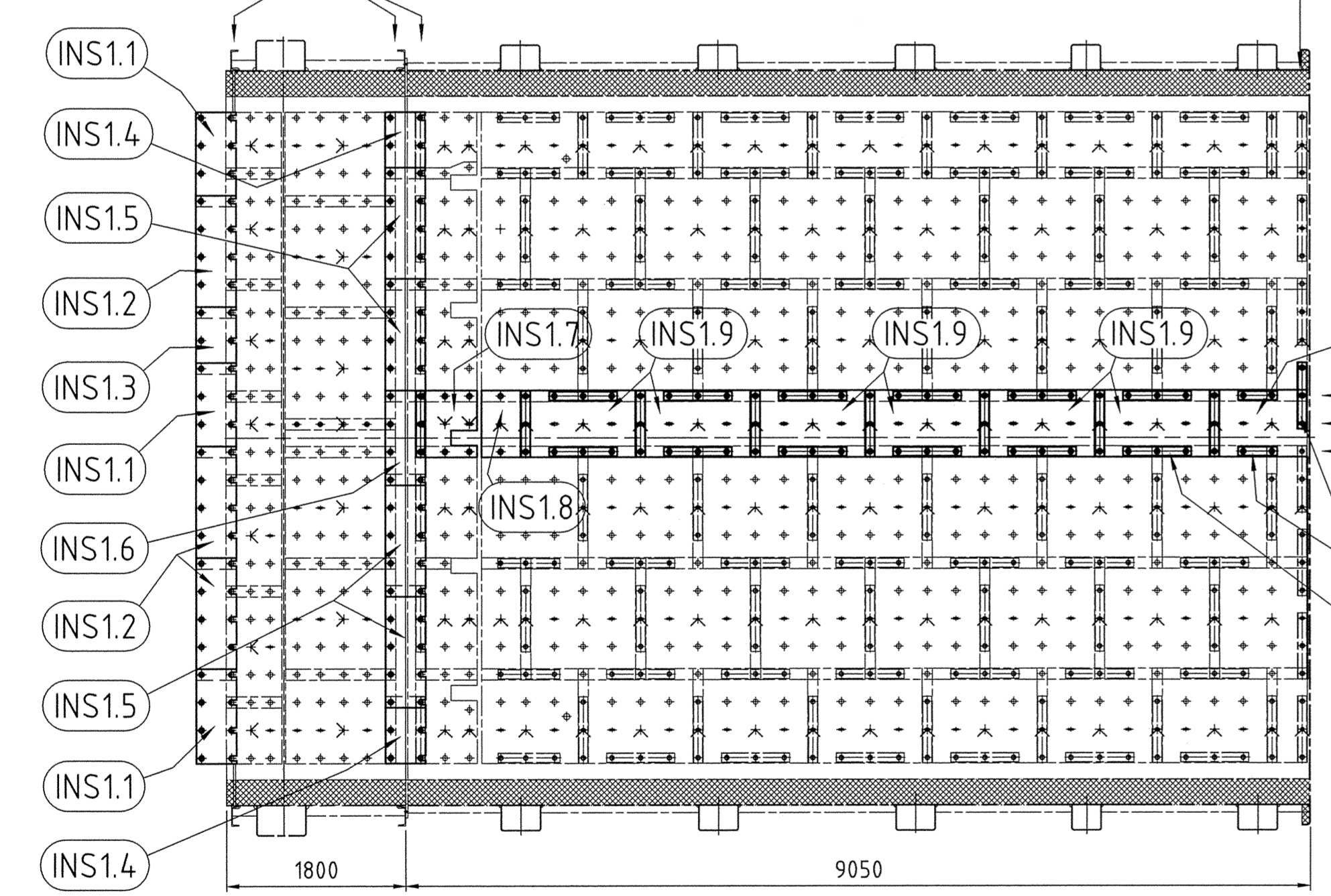
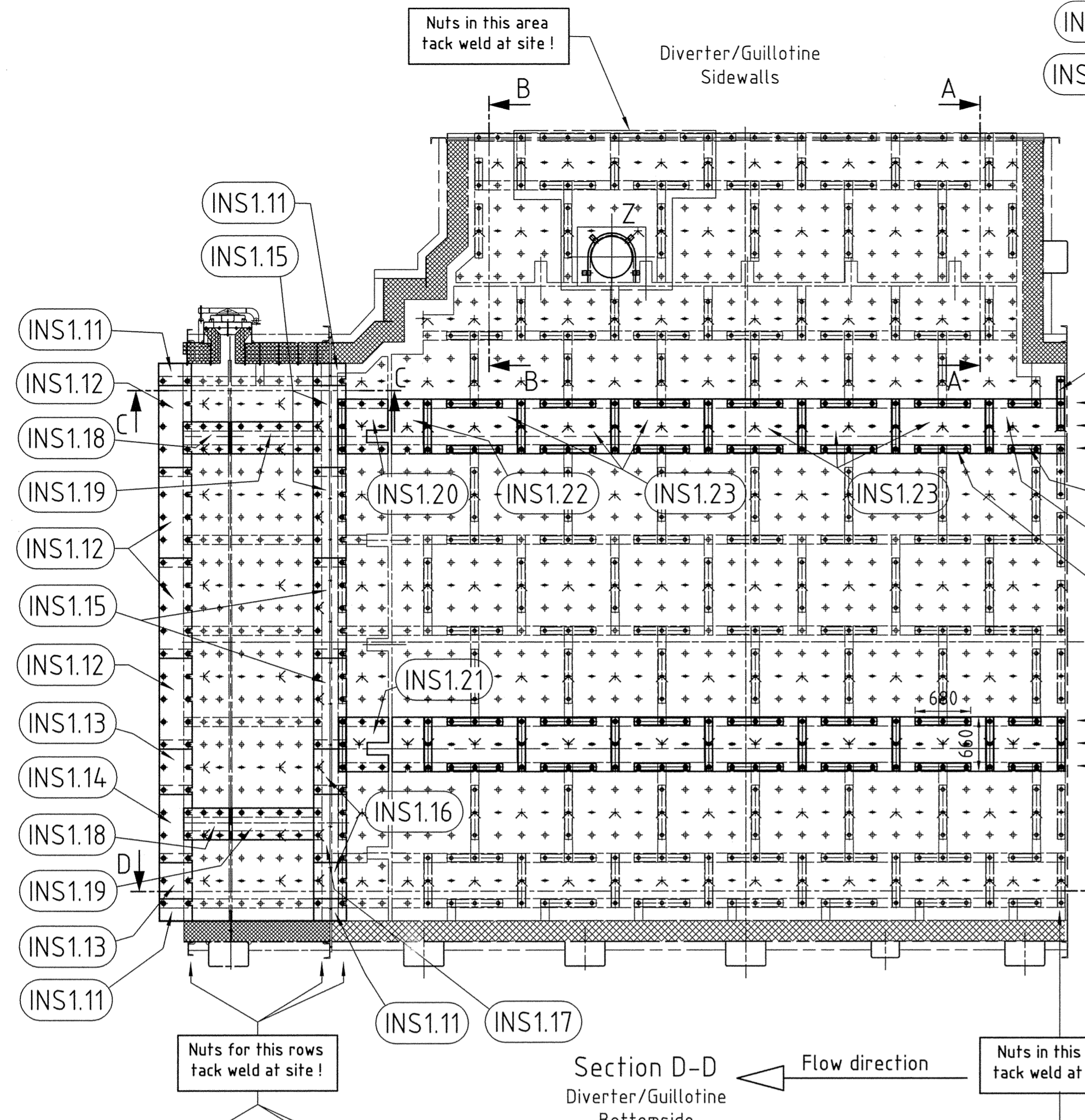


Figure 36: Stack top hood (deflection ring)

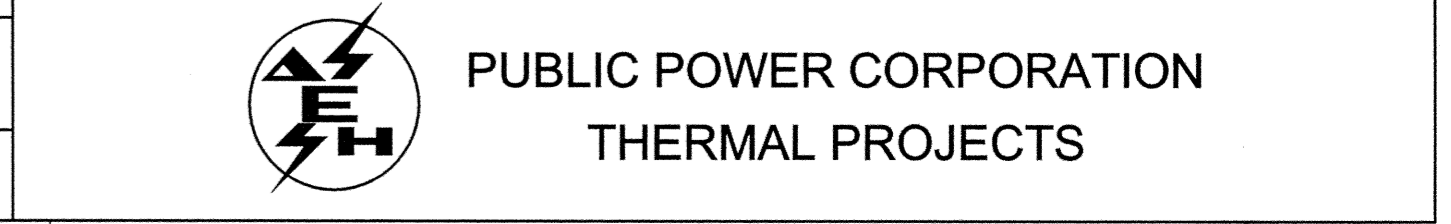


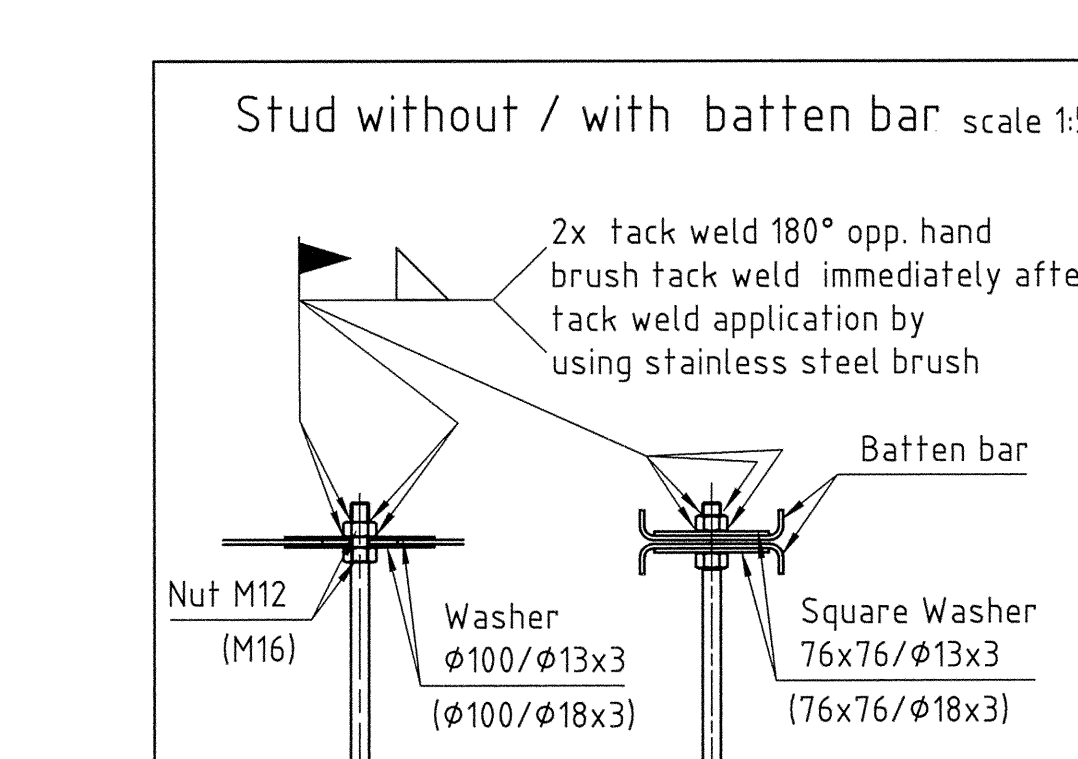
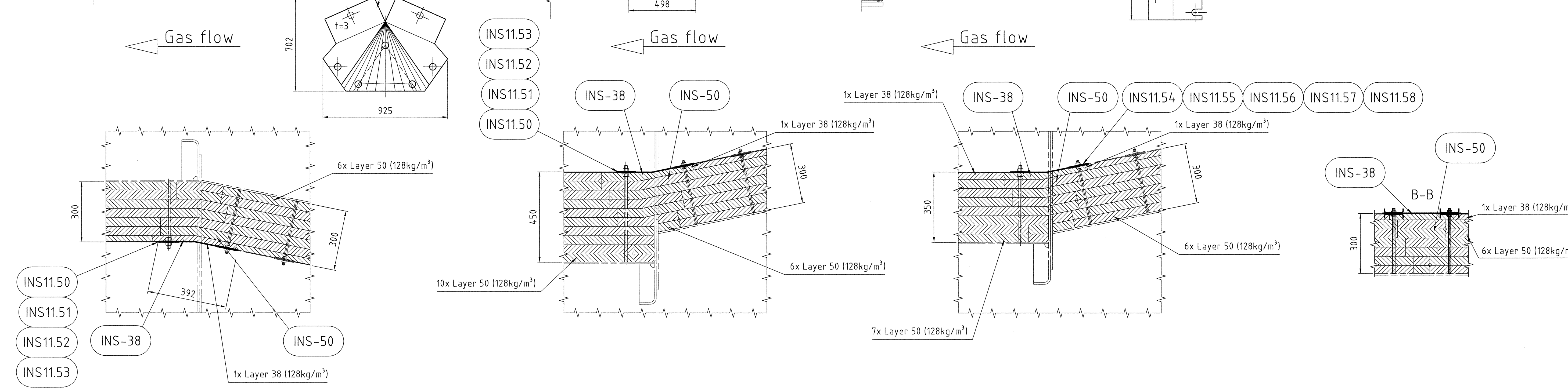
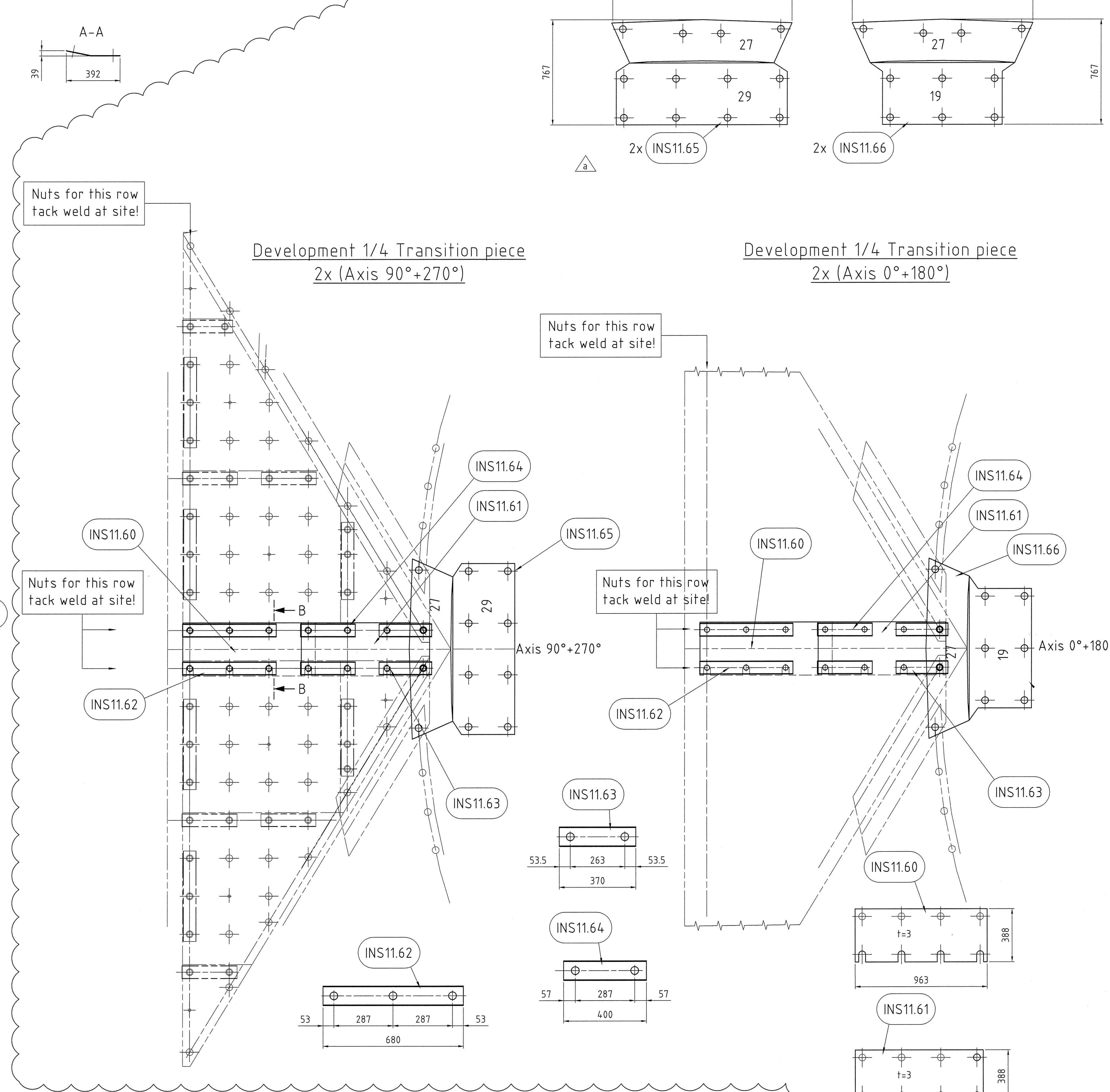
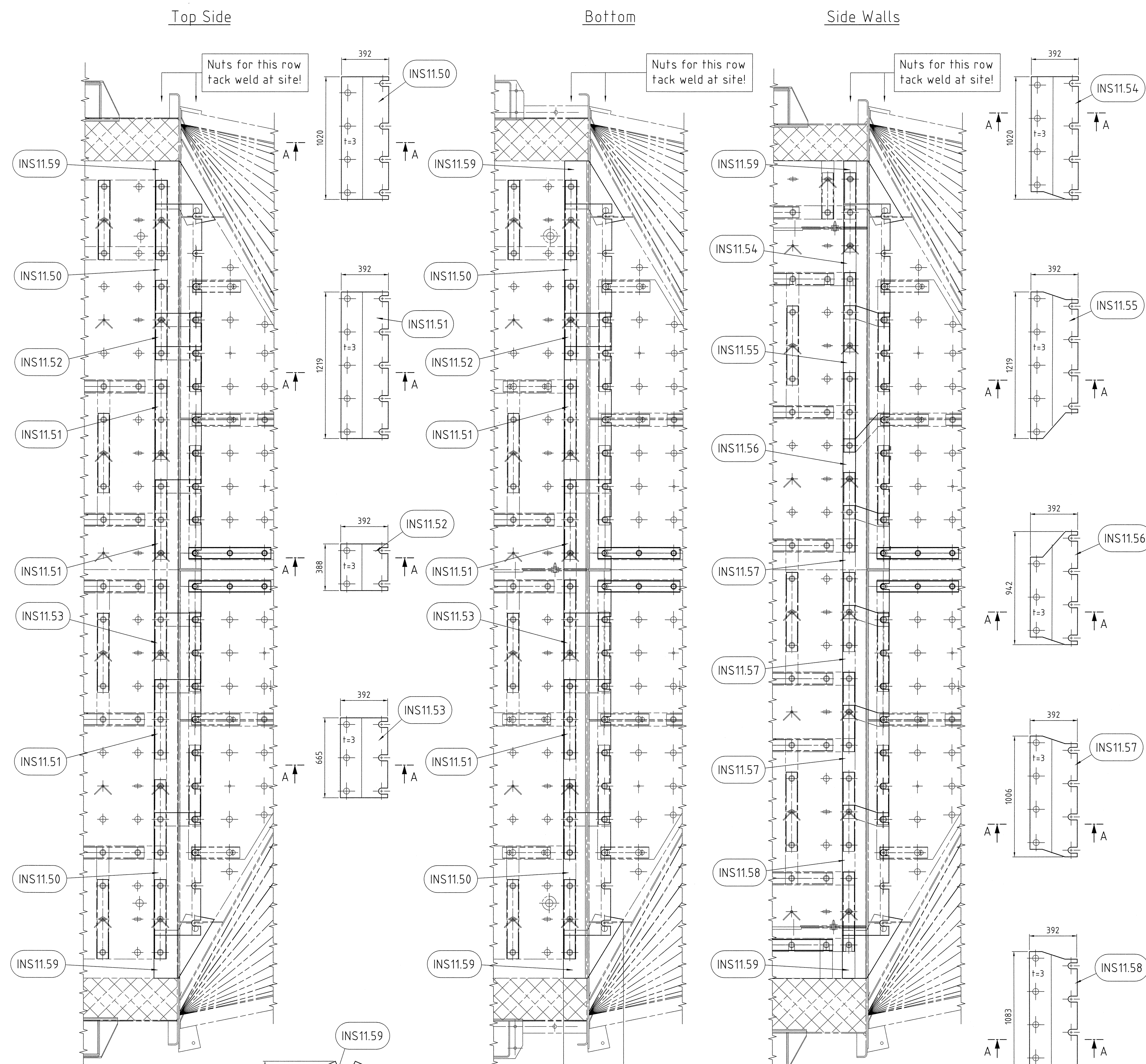
IMPORTANT:
-Press insulation wool against all obstructions and stuff individual layers extremely tight in these areas.
Start insulation from area of obstacles

X.) ATTENTION:
The nuts must be torqued to a maximum of 35 - 40 Newton meters (25 - 30 ft lbs), backed-off minimum half a turn (180°) counter-clockwise. Lock in position with 2 tack welds 180° opp. hand between nut and stud. The washer underneath is to be 2x tack welded to the nut as well. THIS PROCEDURE IS EXTREMELY CRITICAL TO ALLOW THERMAL GROTH AND MOVEMENT OF LINER PLATES! TAKE SPECIAL CARE IN AREA OF EXP. JOINT PLATES. Brush tack weld immediately after welding by using stainless steel brush

Rev.	Änderung/modification	gpn./rev.	08.06.2011	MKN
1	Detail "Typical Split Area" added	gpn./checked	08.07.11	AB
Kunde customer/client		J/V METKA S.A. - ETADE S.A.		
Stichwort code		CCPP MEGALOPOLIS Unit V		
Masse ohne Toleranzangabe: Dimensions without tolerances:		Schweißtoleranzen: Welding Tolerances: DIN EN ISO 5817 C		
Datum/date		Name/name		
10.01.2011		USC		
23.02.2011		JBE		
1:50		Field Assembly Drawing Insulation Diverter Transport Split		
11304-01-0513a		NEM POWER-SYSTEMS		

REVISION DESCRIPTION	DESIGNATION	ITEM NUMBER	CLIENT	J/V METKA S.A.
ISSUED FOR INFORMATION	EQUIPMENT	MBR10	PROJECT	MEGALOPOLIS V
3RD PARTY	TITLE	PROJECT	PBS	DRAWING NUMBER
REVIEW A.I.	23-FEB-2010	21033	01-0513	1
APPROVED	JBE	23-FEB-2010	21033	01-0513
CHECK 2	JBE	23-FEB-2010	21033	01-0513
CHECK 1	JBE	23-FEB-2010	21033	01-0513
ISSUED	USC	KG	23-NOV-2010	21033
INTERNAL DRAWING STATUS	APPROVED	21033	01-0513	1
PROJECT:	CCPP MEGALOPOLIS UNIT V	CONTRACT No.:	11 07 2251	
KKKS DOCUMENT NO:	443-11-H-ODM-NEW-11013	CLIENT:	J/V METKA S.A. - ETADE S.A.	
443-12-H-ODM-NEW-11013				





X.) ATTENTION:
 The nuts must be torqued to a maximum of 35 - 40 Newton meters (25 - 30 ft lbs), backed-off minimum half a turn (180°) counter-clockwise.
 Lock in position with 2 tack welds 180° opp. hand between nut and stud.
 The washer underneath is to be 2x tack welded to the nut as well.
 THIS PROCEDURE IS EXTREMELY CRITICAL TO ALLOW THERMAL GROWTH AND MOVEMENT OF LINER PLATES!
 TAKE SPECIAL CARE IN AREA OF EXP. JOINT PLATES.
 Brush tack weld immediately after welding by using stainless steel brush

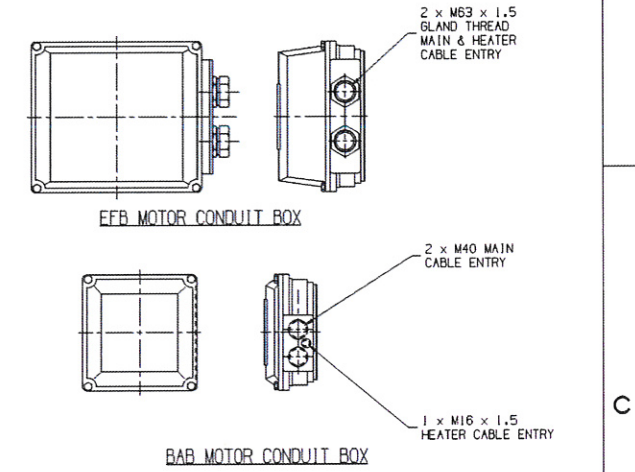
IMPORTANT:
 -Press insulation wool against all obstructions and stuff individual layers extremely tight in these areas.
 Start insulation from area of obstacles

a Revised as per indicated (INS11.65+66 added)		job no.	11.06.11	GN
Rev.	Änderung/modifikation	per. / erstellt	11.06.11	JBE
Title sheet / Titelbogen		N-27-0100a		Schweißverfahren
Dimensions without tolerances		Welding Tolerances		DIN EN ISO 5817 C
DATE	DATE	DATE	DATE	DATE
25.02.2011	SSC	28-JAN-2011	SSC	28-JAN-2011
28.02.2011	JBE	25-FEB-2011	JBE	25-FEB-2011
NEM POWER-SYSTEMS Division: Maschinen-Strömung address: HANNOVER/GERMANY www.nem-power-systems.com		NEM POWER-SYSTEMS		
1:15		Field Assembly DWG Transition Piece Guide Plates for Transport Split		
21033-11-0504		Field Assembly Drawing H-Duct - Guide Plates for Transport Split		
Drawing no.		Description		
21033-11-0504		Field Assembly Drawing H-Duct - Guide Plates for Transport Split		
ISSUED FOR INFORMATION		DESIGNATION	ITEM NUMBER	CLIENT
EQUIPMENT		MBR10		J/V METKA S.A.
PROJECT				MEGALOPOLIS V
JOB PARTY		TITLE	PROJECTION METHOD	FORMAT
APPROVED		28-JAN-2011	1:15	A0
CHECK 2		JBE	28-JAN-2011	1:15
CHECK 1		JBE	28-JAN-2011	1:15
ISSUED		SSC	25-FEB-2011	1:15
INTERNAL DRAWING STATUS	NAME	SIGN	DATE	DRAWING NUMBER
APPROVED	SSC		25-FEB-2011	21033
PROJECT:		CCPP MEGALOPOLIS UNIT V		CONTRACT No.:
KKS DOCUMENT No.:		443-11-H-ODM-NEU-11049		11 07 2251
CLIENT:		J/V METKA S.A. - ETADE S.A.		

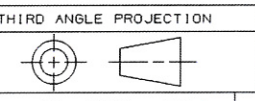
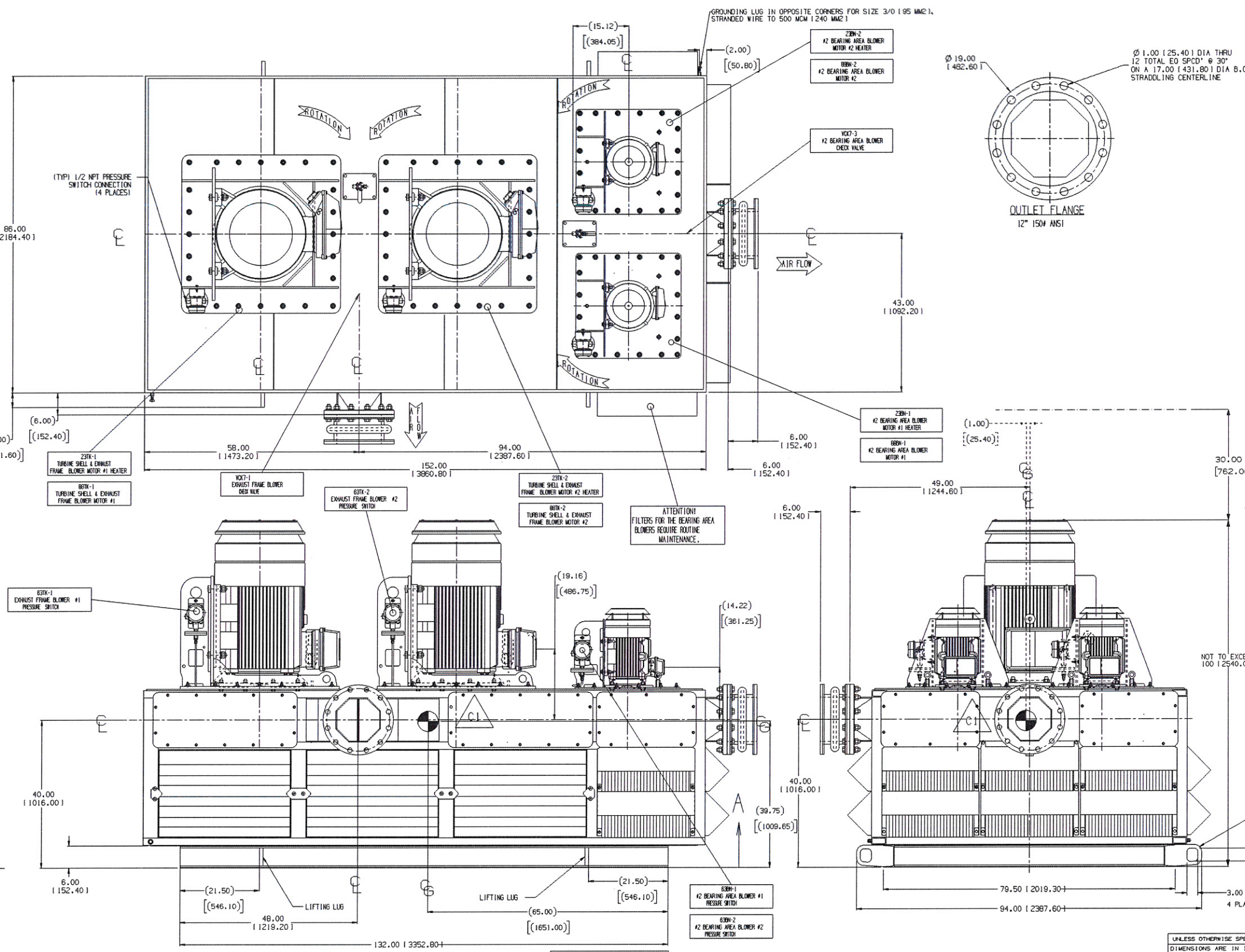
ACHTUNG/ATTENTION
 - Prüfmass / Control dimension
 Kontrolle gemäß Prüfprotokoll für Job Drawing mit genehmigter Ausführung für ein relatives Prüfprotokoll anfordern!
 Check according to test records for each drawing with required control dimension, a separate protocol as to be completed!

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
C	(1) ADDED NOTES, ADDED DIMENSIONS FOR LIFTING LUGS AND UPDATED WT & CG SYMBOLS. DCI-08020589 AN-08022000	08-05-28 GL	LDK OD

GABRIELA LAZEA
REVISE ON CAD ONLY
UG PART: 231D1282



- NOTES:
- SEE MECHANICAL OUTLINE FOR EQUIPMENT ORIENTATION.
 - CABLES, SLINGS, TURNBUCKLES, SPREADER BARS AND ANCHOR SHACKLES ARE NOT SUPPLIED BY GE. THEY MUST BE SUPPLIED BY PLANT DESIGNER AND/OR PLANT INSTALLER.
 - THIS DRAWING IS FOR WEIGHT, CENTER OF GRAVITY AND LIFTING ARRANGEMENT DETAIL ONLY. REFER 0306 AND EG23 FOR OTHER DETAILS.
 - ALL DIMENSIONS ARE IN INCHES, UNLESS OTHERWISE SPECIFIED DIMENSIONS IN () ARE IN MILLIMETERS.
1 INCH = 25.4 MM.
 - ALL 4 LIFTING LUGS SHOULD BE USED DURING THE LIFTING OPERATION. NO SPECIAL LIFTING AND RIGGING RESTRICTIONS.
 - SEE SHEET 1 FOR OVERALL ASSEMBLY DETAIL.
 - SEE SHEET 2 FOR SPECIFIC MOUNTING DETAILS.
 - APPROXIMATE WEIGHT 15 10,500 LBS (4763KG).



TOLERANCE UNLESS OTHERWISE SPECIFIED
FRACTIONAL ± 1/8
DECIMAL ± .125
CAUTION
PRIOR TO ERECTION AND START-UP, CONSULT SERVICE MANUAL FOR INSTRUCTIONS AND SAFETY PRECAUTIONS

PURCHASER TO PROVIDE OPENINGS IN BUILDINGS OR STRUCTURES OF SUFFICIENT SIZE TO PERMIT ENTRANCE OF EQUIPMENT PARTS AS SHOWN ON THIS DRAWING

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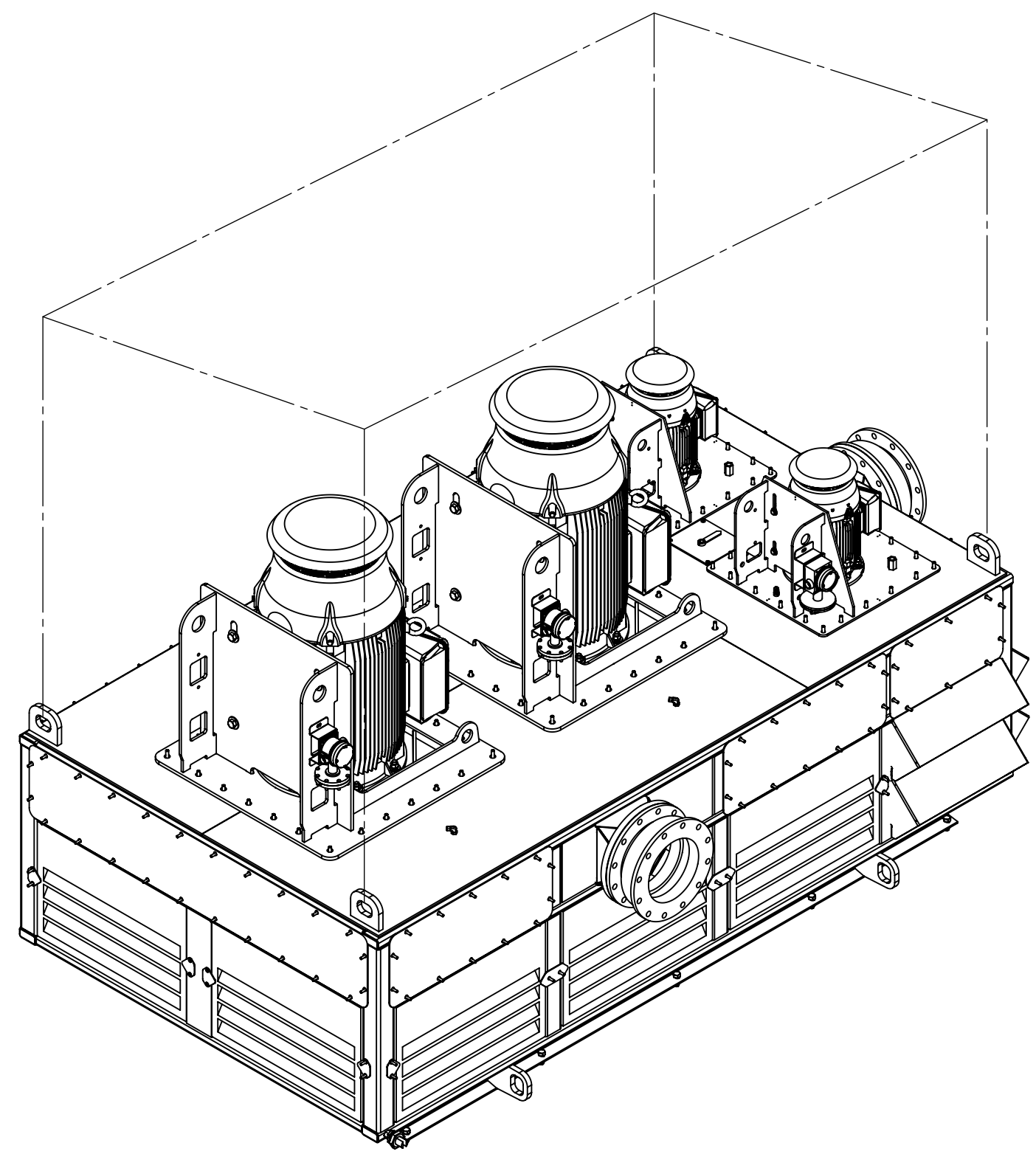
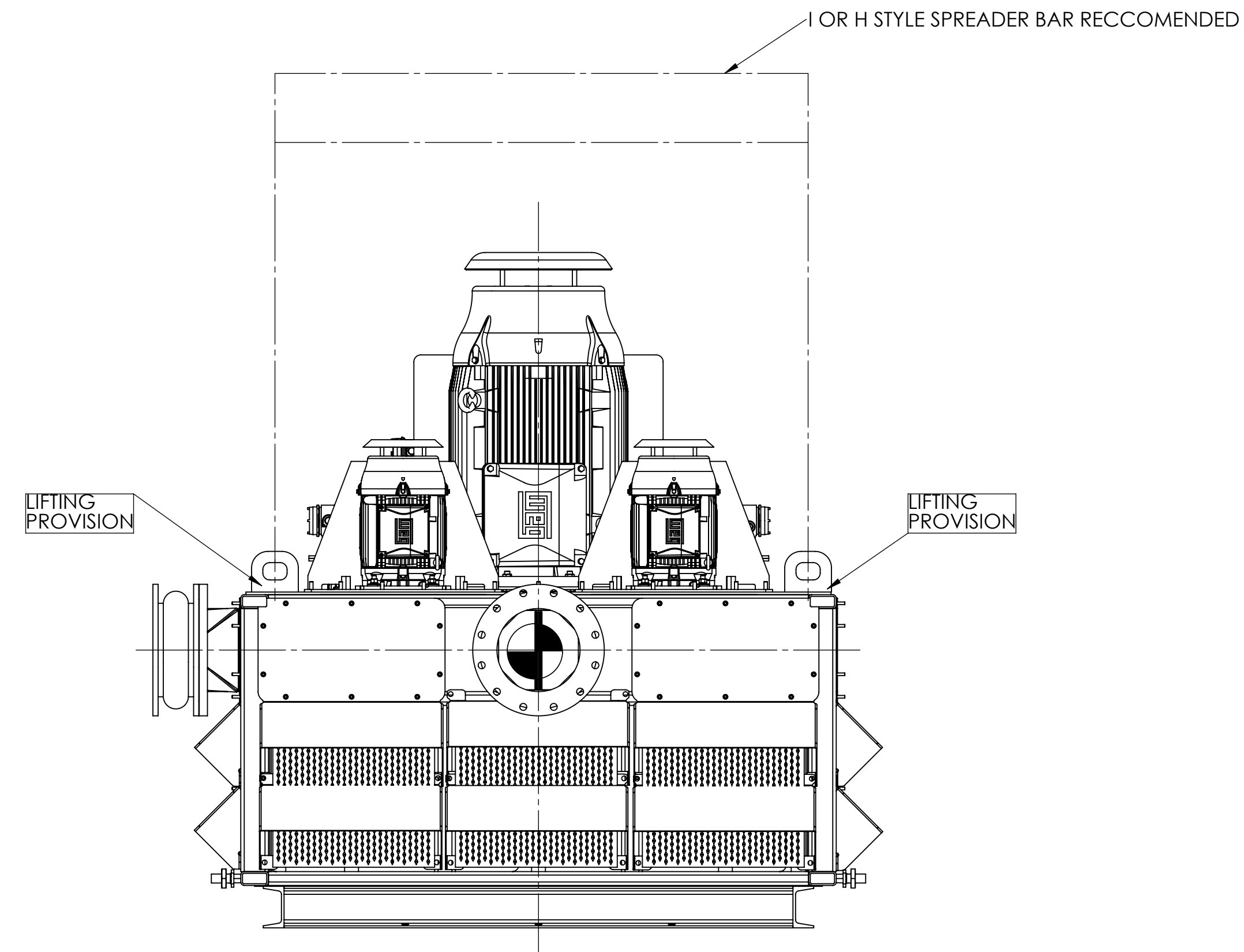
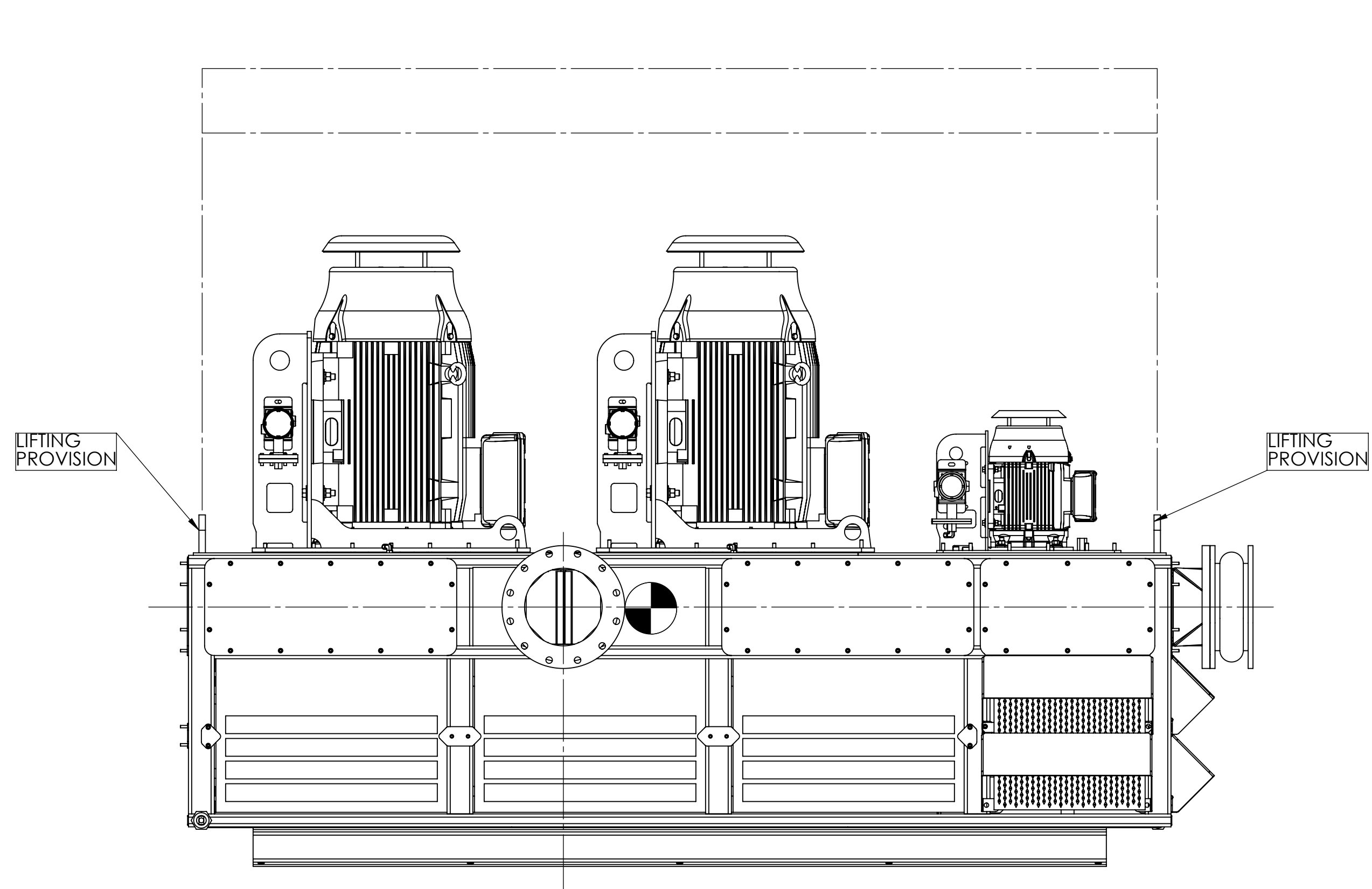
UNLESS OTHERWISE SPECIFIED	SIGNATURES	DATE	GE Power Generation
DIMENSIONS ARE IN INCHES	DRAWN A. MENDOZA	06-08-11	GENERAL ELECTRIC COMPANY 845 TURETINE DALLAS, TX, SC
TOLERANCES ON:	DESIGNED T. WEBB	06-08-25	
2 PL. DECIMALS ±	ENGINEER M. STANSBERRY	06-08-25	
3 PL. DECIMALS ±	ISSUED T.L. WEBB	06-08-29	
ANGLES ±			
FRACTIONS ±			
APPLIED PRACTICES 34BA9200			
SIM TO: 212D5662			

GENERAL ARRANGEMENT COOLING FAN MODULE		
REV	REV STATUS OF SHEETS	
1	SH	
FIRST MADE FOR ML-9A1WFA99-1 TO 6 A132		
Dwg No 231D1282		
SCALE NONE		
SHEET 1		

08-Sep-2008-10.57

8 7 6 5 4 3 2 1

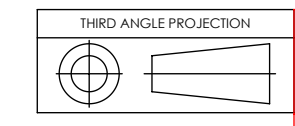
D
C
B
A



A132 COOLING FAN MODULE NOTES:

1. THIS DRAWING SHALL ONLY BE USED FOR CRANE SELECTION WHILE LIFTING A132 MODULE. FOR ANY OTHER INFORMATION, ORIGINAL VENDOR DRAWING ISSUED TO SITE SHALL BE USED.
2. MAXIMUM WEIGHT WITHOUT CRATING: 18,000LBS [8,165 KGS]
3. MAXIMUM WEIGHT WITH CRATING: 23,000LBS [10,433KGS]

NOTE:
DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS.
ASTM E380 APPLIES. METHOD B SHALL BE USED IN CONVERTING
AND ROUNDING OFF. 1 INCH = 25.4 MM APPLIES.



GE POWER GENERATION GENERAL ELECTRIC COMPANY SCHENECTADY, NY

VENDOR SUPPLIED DRAWING

GE NOT TO REVISE. GE REVISION LEVEL IS AS SHOWN ON THIS APPLIQUE. THIS DOCUMENT IS FILED UNDER THE GE DRAWING NUMBER
THIS DOCUMENT SHALL BE REVISED IN ITS ENTIRETY. ALL SHEETS OF THIS DOCUMENT ARE THE SAME REVISION LEVEL AS INDICATED IN THIS VENDOR SUPPLIED DRAWING APPLIQUE.

MLI: _____ OF _____
GE SIGNATURES DATE GE DRAWING NUMBER REV.

CHECKED ISSUED 288D1524

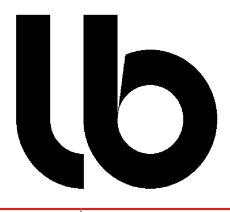
MOTOR DATA

TURBINE FRAME	HORSEPOWER	RPM	ENCLOSURE	FRAME	PHASE	HERTZ
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-

PERFORMANCE

FRAME	C.F.M.	S.P.	RPM	WHEEL	TEMP.	ELEV.	DENSITY
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

DO NOT SCALE DRAWING
TOLERANCE UNLESS OTHERWISE SPECIFIED
FRACTIONAL ±1/16
DECIMAL ±.06
ANGULAR ±0°-30' (5°)
PURCHASER TO PROVIDE OPENINGS IN BUILDINGS OR STRUCTURES OF SUFFICIENT SIZE TO PERMIT ENTRANCE OF ALL EQUIPMENT AND/OR PARTS AS SHOWN ON THIS DRAWING.

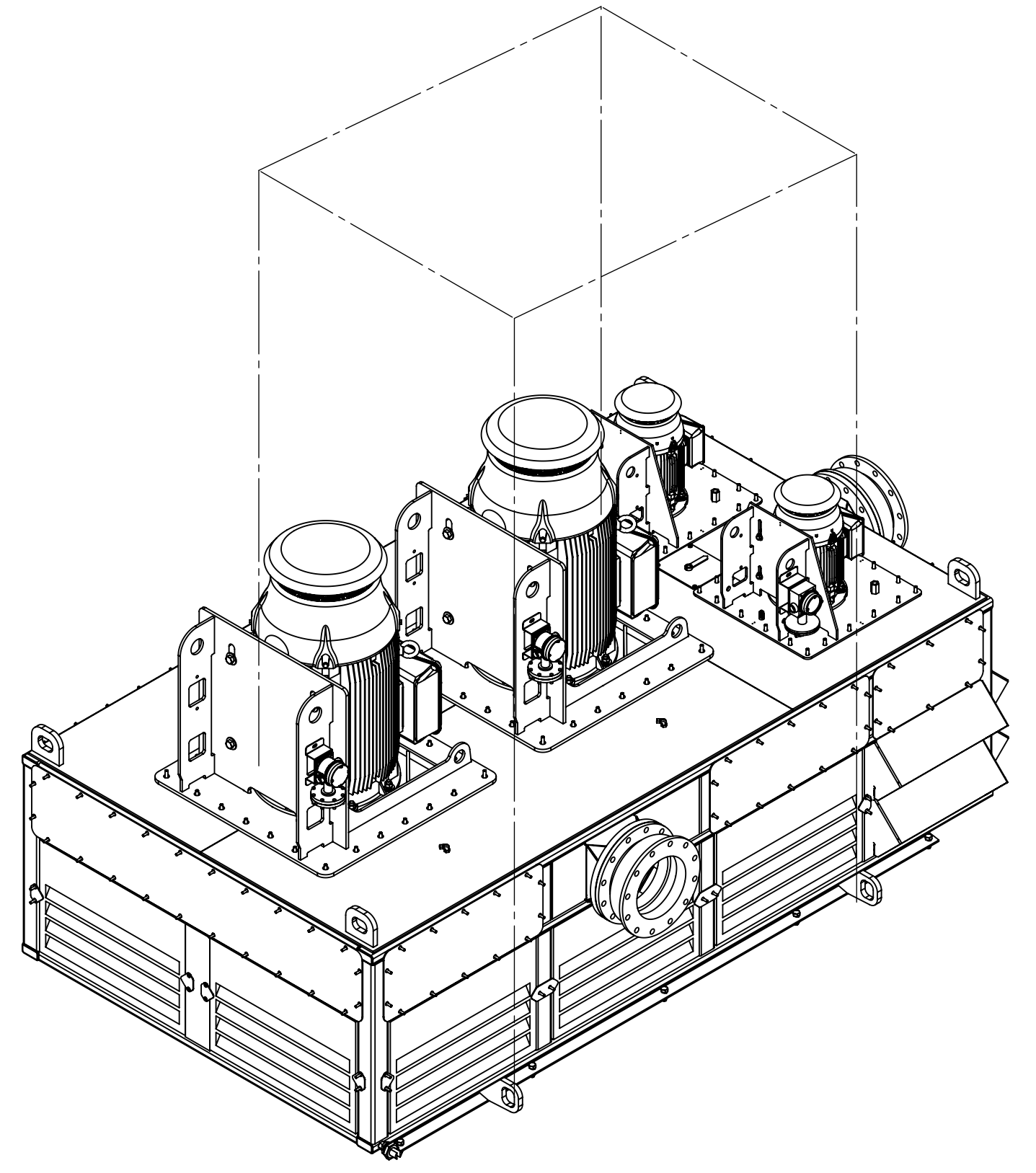
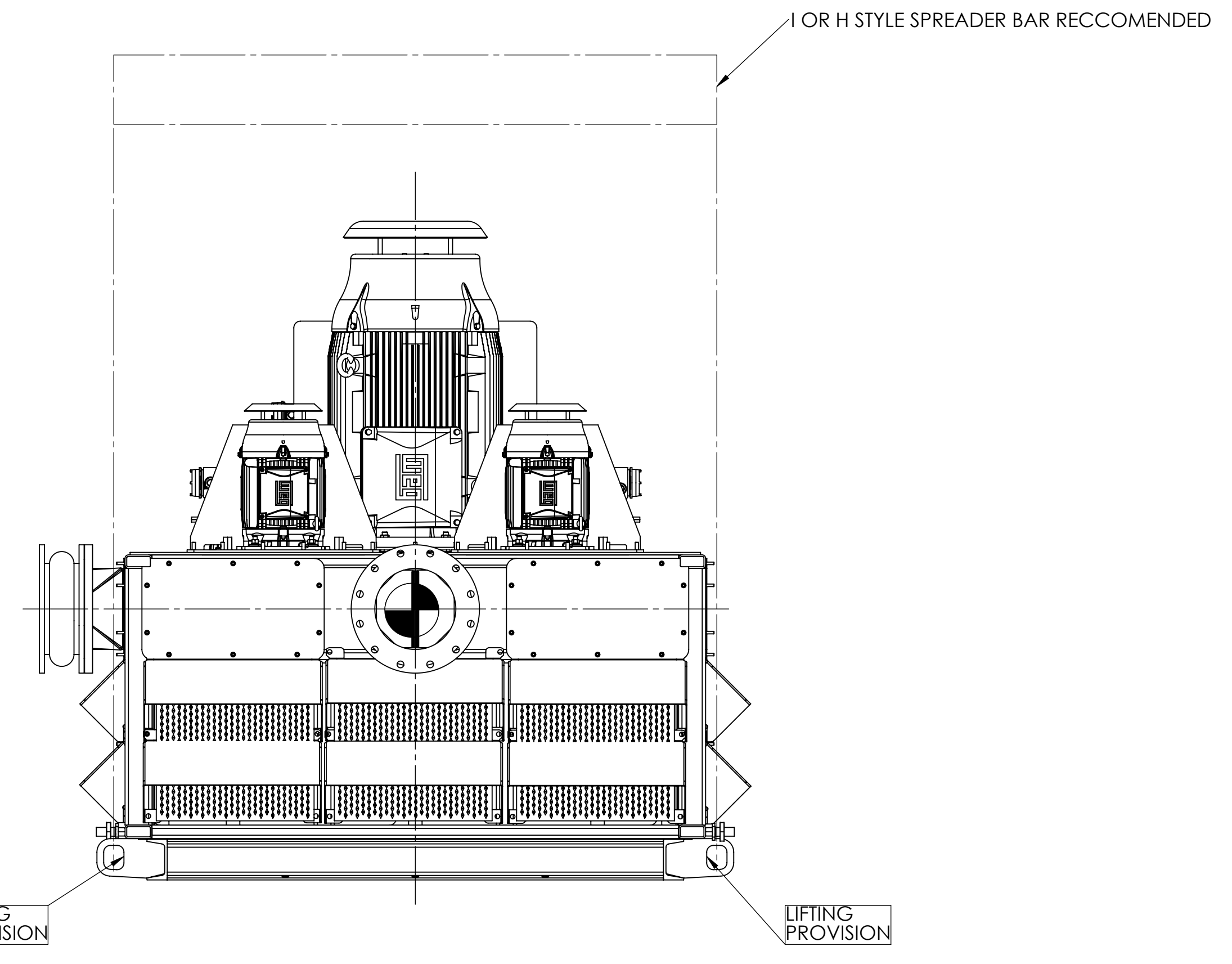
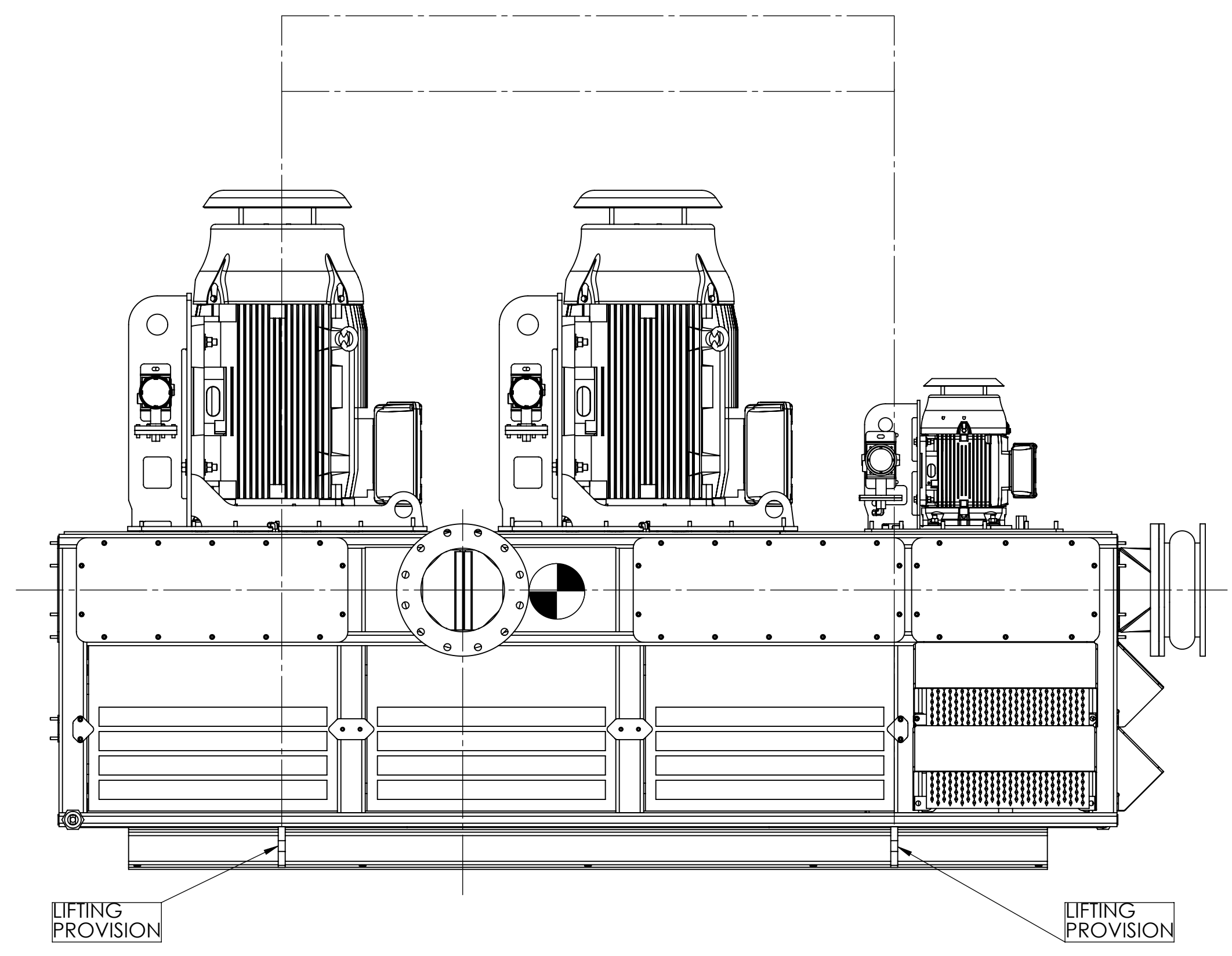


illinois blower, inc.
750 Industrial Drive, Cary, Illinois 60013
CUSTOMER GENERAL ELECTRIC POWER GENERATION FOR USE ON: A132 CFM
TITLE GENERAL LIFTING ARRANGEMENT
SIZE D DRAWING NUMBER LIFTING ARRANGEMENT SHEET 1 OF 2

DRAWN PAJR
APPRD DPM
DATE 04/28/16
SCALE NONE

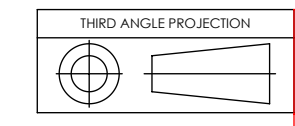
8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1



A132 COOLING FAN MODULE NOTES:

1. THIS DRAWING SHALL ONLY BE USED FOR CRANE SELECTION WHILE LIFTING A132 MODULE. FOR ANY OTHER INFORMATION, ORIGINAL VENDOR DRAWING ISSUED TO SITE SHALL BE USED.
2. MAXIMUM WEIGHT WITHOUT CRATING: 18,000LBS [8,165 KGS]
3. MAXIMUM WEIGHT WITH CRATING: 23,000LBS [10,433KGS]



GE POWER GENERATION GENERAL ELECTRIC COMPANY SCHENECTADY, NY

VENDOR SUPPLIED DRAWING

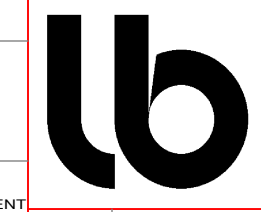
GE NOT TO REVISE, GE REVISION LEVEL IS AS SHOWN ON THIS APPLIQUE. THIS DOCUMENT IS FILED UNDER THE GE DRAWING NUMBER
THIS DOCUMENT SHALL BE REVISED IN ITS ENTIRETY. ALL SHEETS OF THIS DOCUMENT ARE THE SAME REVISION LEVEL AS INDICATED IN THIS VENDOR SUPPLIED DRAWING APPLIQUE.

MLI: _____ OF _____
GE SIGNATURES DATE GE DRAWING NUMBER REV.

CHECKED ISSUED 288D1524

METRIC

DO NOT SCALE DRAWING
TOLERANCE UNLESS OTHERWISE SPECIFIED
FRACTIONAL ±1/16
DECIMAL ±.06
ANGULAR ±0°-30' (5°)
PURCHASER TO PROVIDE OPENINGS IN BUILDINGS OR STRUCTURES OF SUFFICIENT SIZE TO PERMIT ENTRANCE OF ALL EQUIPMENT AND/OR PARTS AS SHOWN ON THIS DRAWING.
CAUTION
PRIOR TO ERECTION AND START-UP, CONSULT SERVICE MANUAL FOR INSTRUCTIONS AND SAFETY PRECAUTIONS.



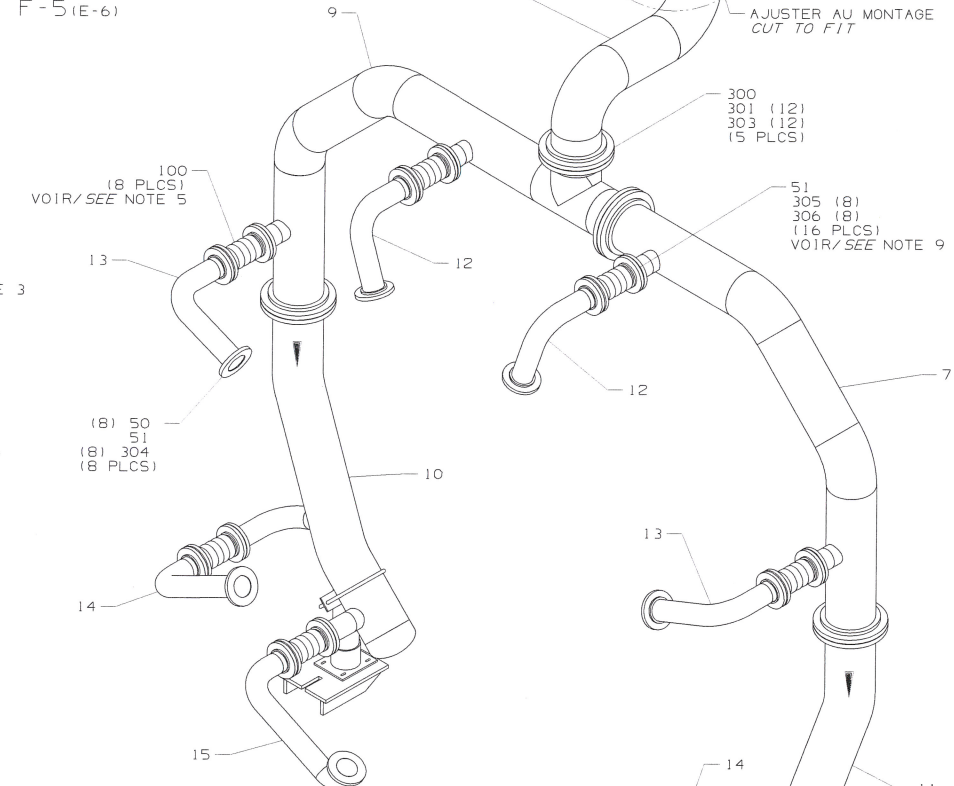
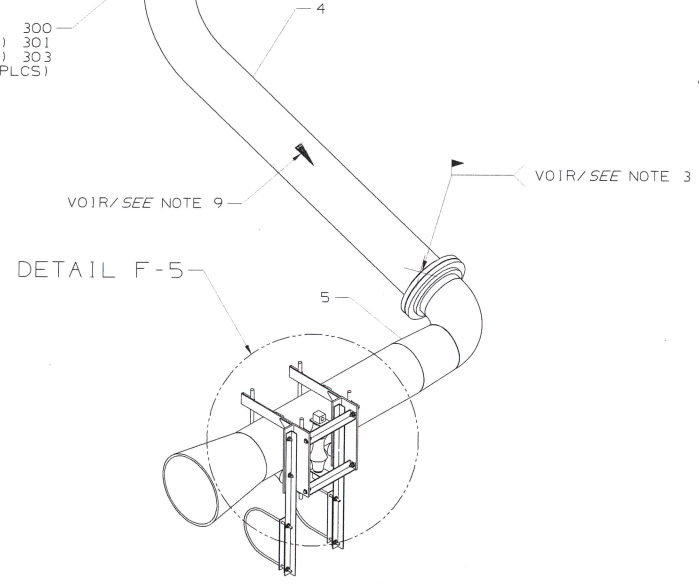
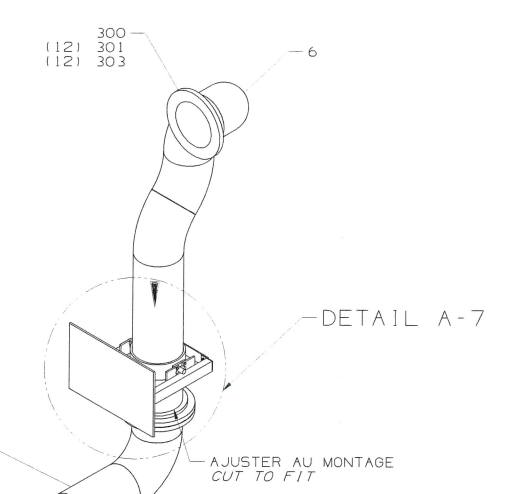
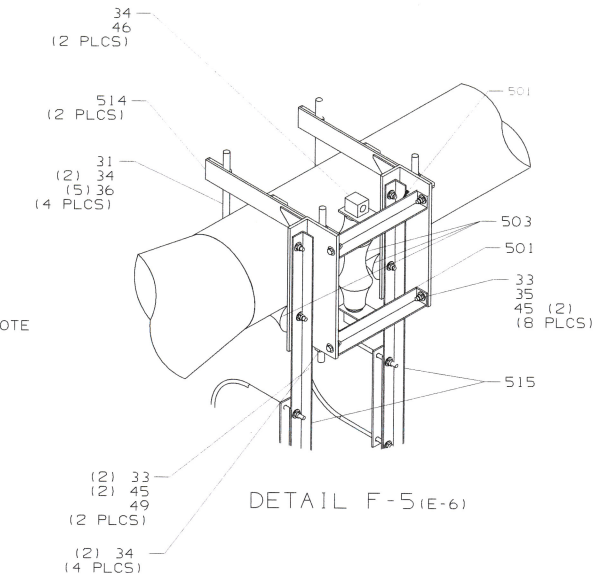
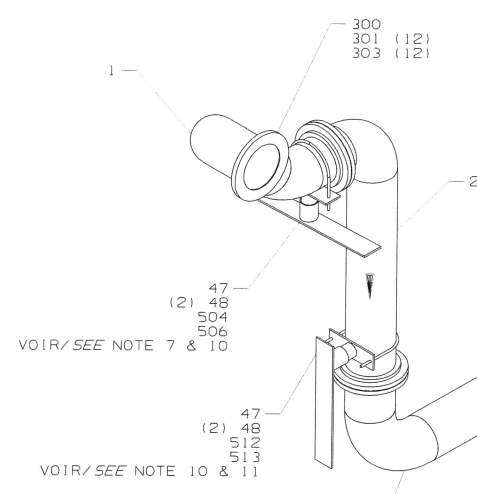
illinois blower, inc.
750 Industrial Drive, Cary, Illinois 60013
CUSTOMER GENERAL ELECTRIC POWER GENERATION FOR USE ON: A132 CFM
TITLE GENERAL LIFTING ARRANGEMENT
SIZE D DRAWING NUMBER LIFTING ARRANGEMENT SHEET 2 OF 2

REVISION LETTER	GE ALTERATION NOTICE NUMBER

PERFORMANCE							
FRAME	C.F.M.	S.P.	RPM	WHEEL	TEMP.	ELEV.	DENSITY

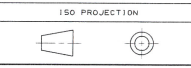
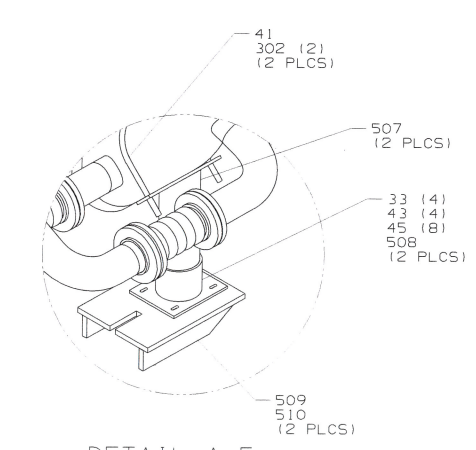
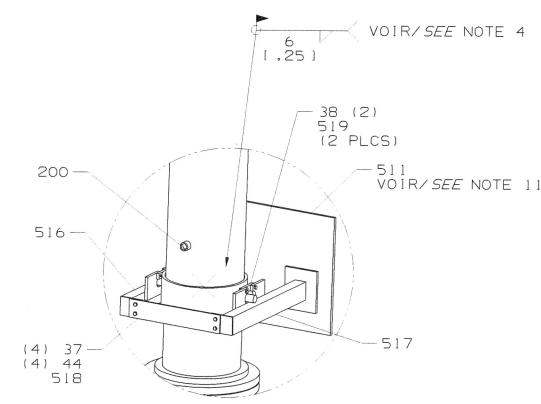
MOTOR DATA						
TURBINE FRAME	HORSEPOWER	RPM	ENCLOSURE	FRAME	PHASE	HERTZ

8 7 6 5 4 3 2 1



VUE ISOMETRIQUE
ISOMETRIC VIEW
REFROIDISSEMENT PALIER NO2
NO. 2 BEARING COOLING

VUE ISOMETRIQUE
ISOMETRIC VIEW
REFROIDISSEMENT CORP ECHAPPEMENT
EXHAUST FRAME COOLING



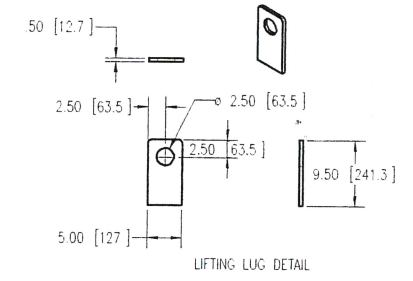
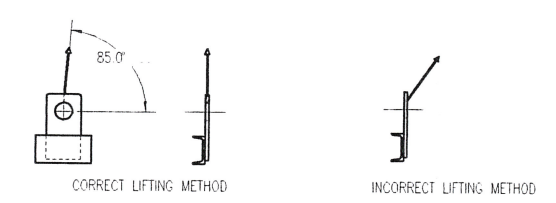
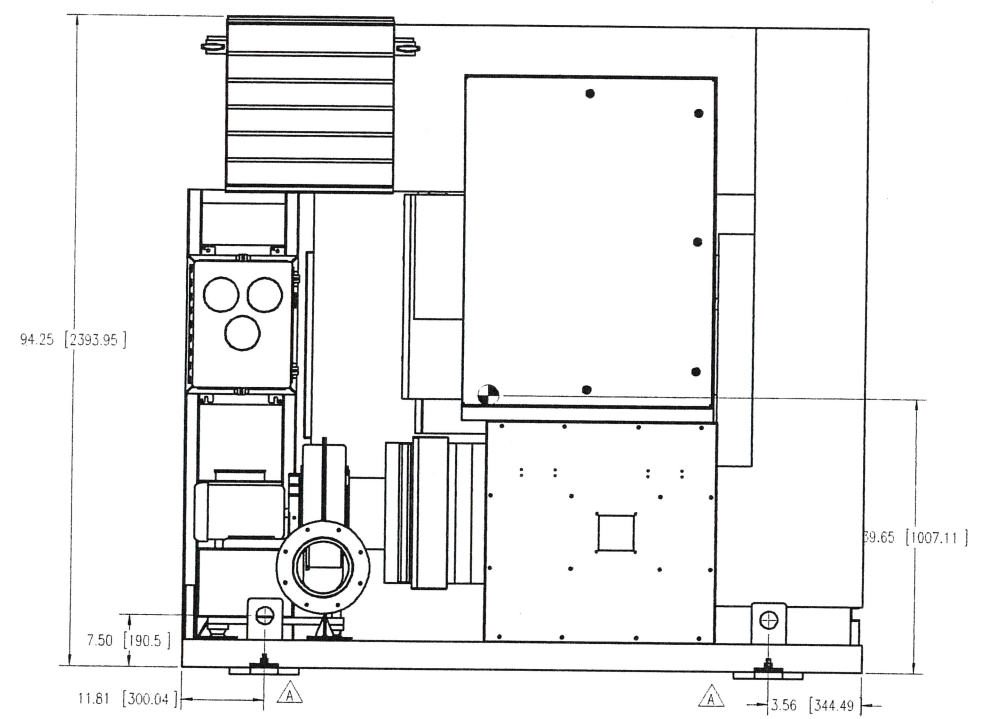
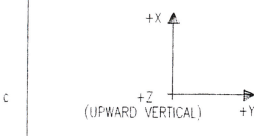
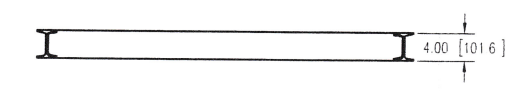
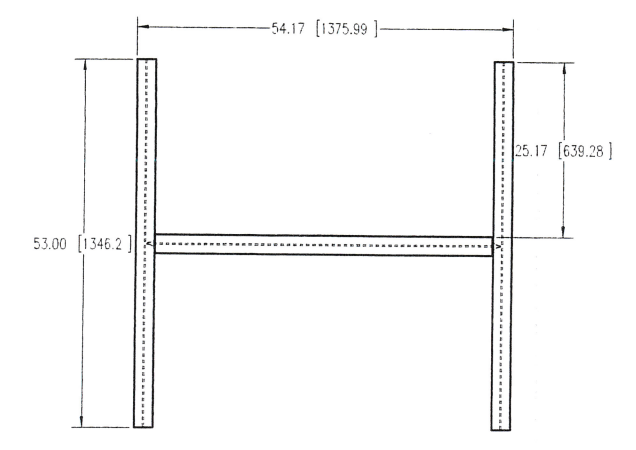
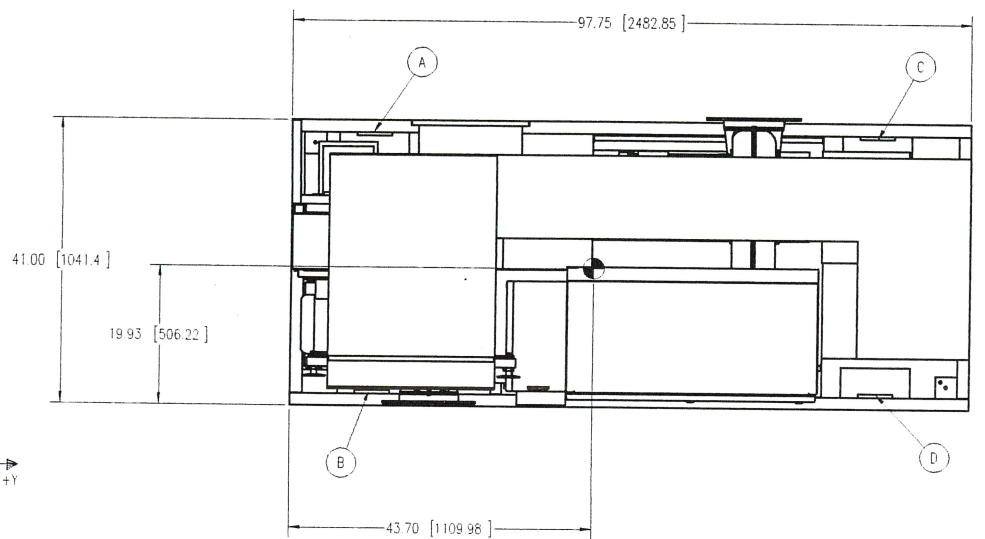
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DRAWN	DATA-K:U	10-SEP-09
DESIGNED	BUCKET:R	10-SEP-09
APPROVED	PRETAT:R	10-SEP-09
ARR. TUY. AIR REFROIDISSEMENT CADRE ECHAPPEMENT PIPING ARR. COOLING AIR EXHAUST FRAME		
SIZE	CASE CODE	REV. 1 A
A0	141E8526	141E8526
SCALE	NONE	REV. 1 A
		SHEET 2

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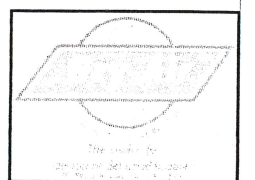
01P 91-9002-085-11
 141E8526 2 A

RECOMMENDED LIFTING PROCEDURE

1. MINIMUM LIFT CAPACITY: 5,000 LBS [2268 Kg]
2. USE SPREADER BARS SUCH THAT LIFT LINES ARE NEARLY VERTICAL
3. SPREADER BARS TO EXTEND 6" BEYOND SKID ON EACH SIDE
4. RECOMMENDED SPREADER BAR MATERIAL : S4 X 7.7, (AXIS X-X, I=6.08 in⁴) (AXIS Y-Y, I=0.764 in⁴)
5. ADJUST LIFT LINES TO KEEP UNIT LEVEL WHILE LIFTING
6. REFERENCE DRAWING FOR APPROXIMATE CENTER OF GRAVITY (CG)
7. REFERENCE CHART FOR APPROXIMATE WEIGHTS AT LIFT POINTS
8. SEE MECHANICAL OUTLINE (145E6658) FOR EQUIPMENT ORIENTATION
9. CABLES, SLINGS, TURNBUCKLES, SPREADER BARS, & ANCHOR SHACKLES ARE NOT SUPPLIED BY GE. THEY MUST BE SUPPLIED BY THE PLANT DESIGNER AND/OR PLANT INSTALLER
10. THIS DRAWING IS FOR WEIGHT, CENTER OF GRAVITY, AND LIFTING ARRANGEMENT DETAIL ONLY. REFER TO 211058-U1, 211058-FA1, 211058-IN1, 211058-P1 & 211058-E1 FOR OTHER DETAILS



LIFT POINT	EST. WEIGHT
A	556 LBS [252 Kg]
B	558 LBS [253 Kg]
C	446 LBS [203 Kg]
D	438 LBS [198 Kg]



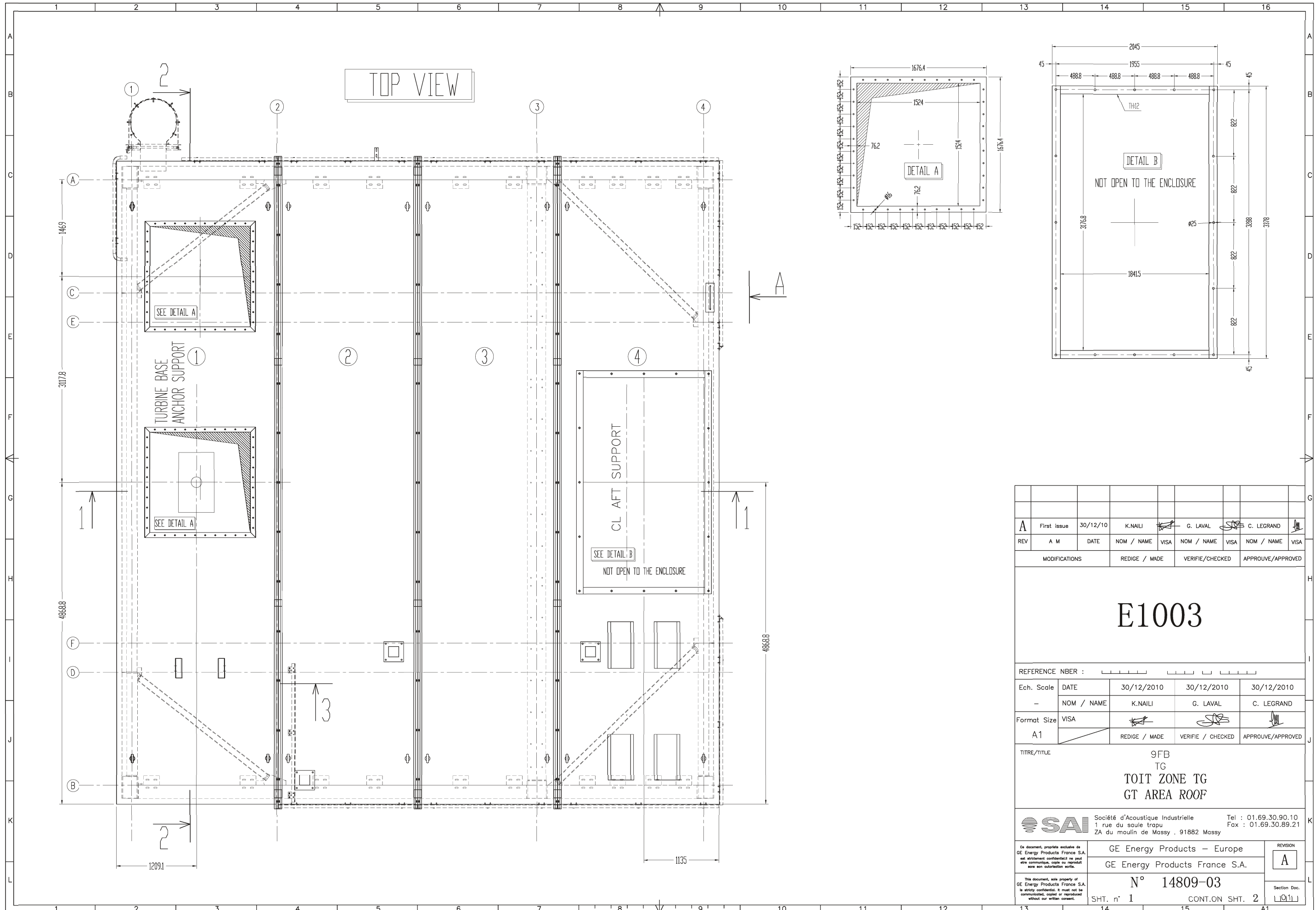
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
SHEET	A	REVISED MOUNTING PAD POSITION AND DESIGN	9/22/2011	MM

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UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN INCHES	DRAWN	MM	9/5/11
TOLERANCES	CHECKED		
HOLE & DRILL DIA. 1/16"	ENG. APPR.	WOR	9/7/11
PLATE & DRILL DIA. 1/16"	ENG. APPR.		
GENERAL DIMENSIONS ± 1/4"			
HOLE WIDTH ± .015"			
PERIODIC DIMENSIONS PER MATERIAL			
FINISH INTERGRADE 475MG, FINISH TO RAL 7035			

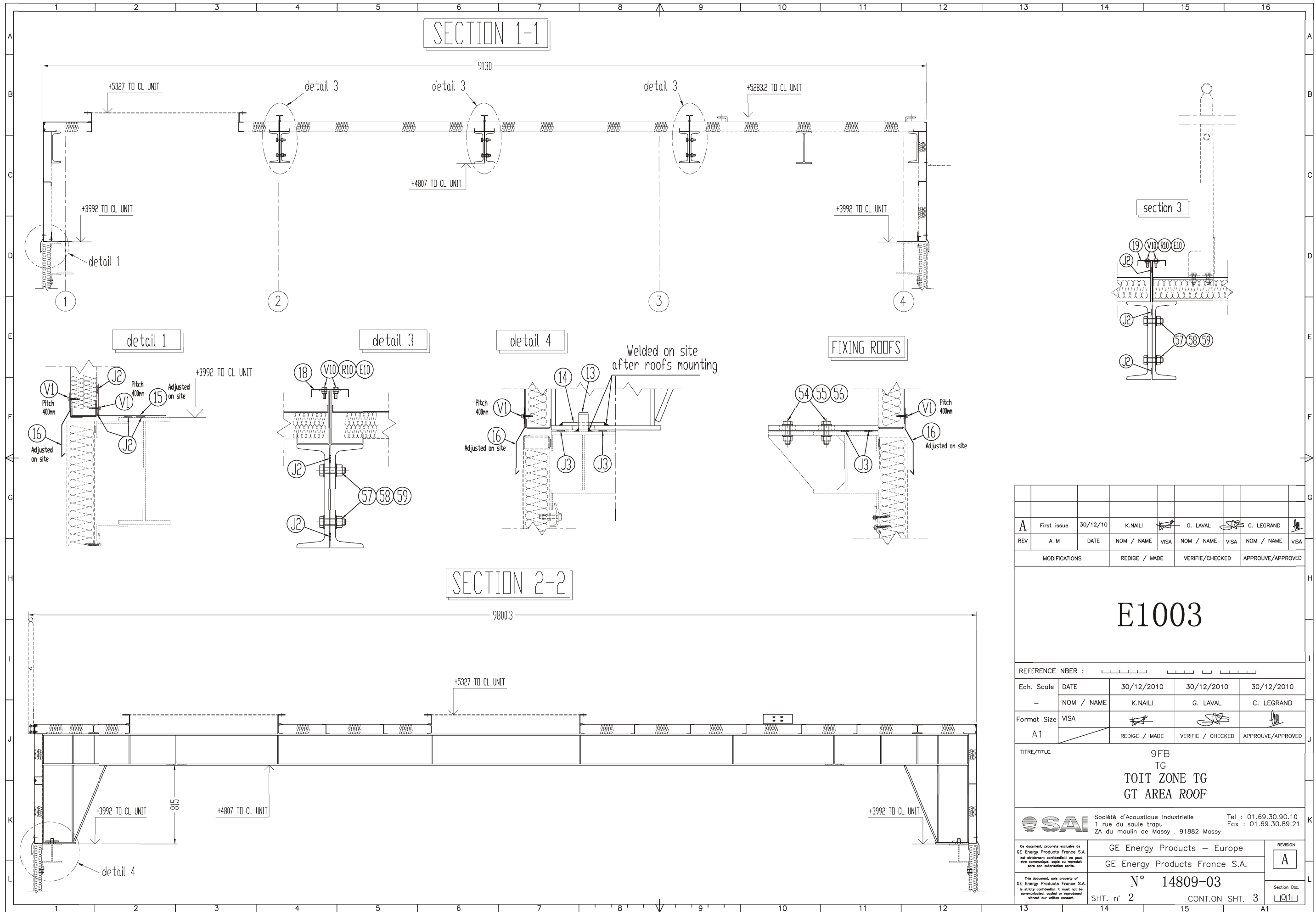
BRY-AIR, INC.	
TITLE: LIFTING ARRANGEMENT VFB-12-E	
SIZE: D	DWG. NO.: 211058-LA1
SCALE: 1:12	WEIGHT: 2000 LBS SHEET 1 OF 1

D 14-DWG-211058-LA1



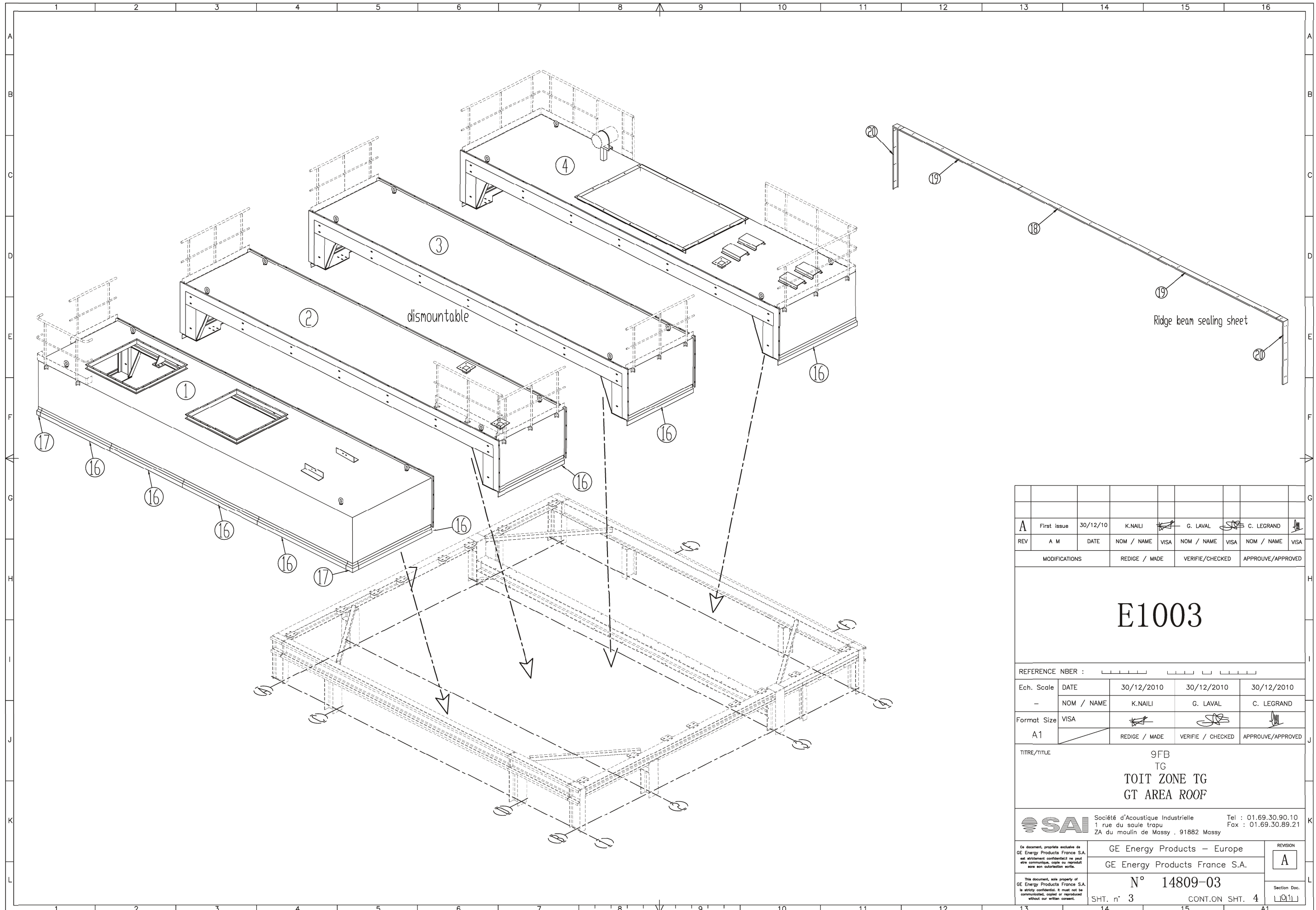
A	First issue	30/12/10	K.NAILI	G. LAVAL	C. LEGRAND			
REV	A M	DATE	NOM / NAME	VISA	NOM / NAME	VISA	NOM / NAME	VISA
MODIFICATIONS			REDIGE / MADE	VERIFIE/CHECKED	APPROUVE/APPROVED			
<h1>E1003</h1>								
REFERENCE NBER : _____								
Ech. Scale	DATE	30/12/2010	30/12/2010	30/12/2010				
	NOM / NAME	K.NAILI	G. LAVAL	C. LEGRAND				
Format Size	VISA							
A1		REDIGE / MADE	VERIFIE / CHECKED	APPROUVE/APPROVED				
TITRE/TITLE		9FB TG TOIT ZONE TG GT AREA ROOF						
SAI		Société d'Acoustique Industrielle 1 rue du saule trapu ZA du moulin de Massy . 91882 Massy		Tel : 01.69.30.90.10 Fax : 01.69.30.89.21				
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This document, sole property of GE Energy Products France S.A. is strictly confidential. It must not be communicated, copied or reproduced without our written consent.		N° 14809-03			Section Doc.			
		SHT. n° 1			CONT.ON SHT. 2			

20-Sep-2011-14:27



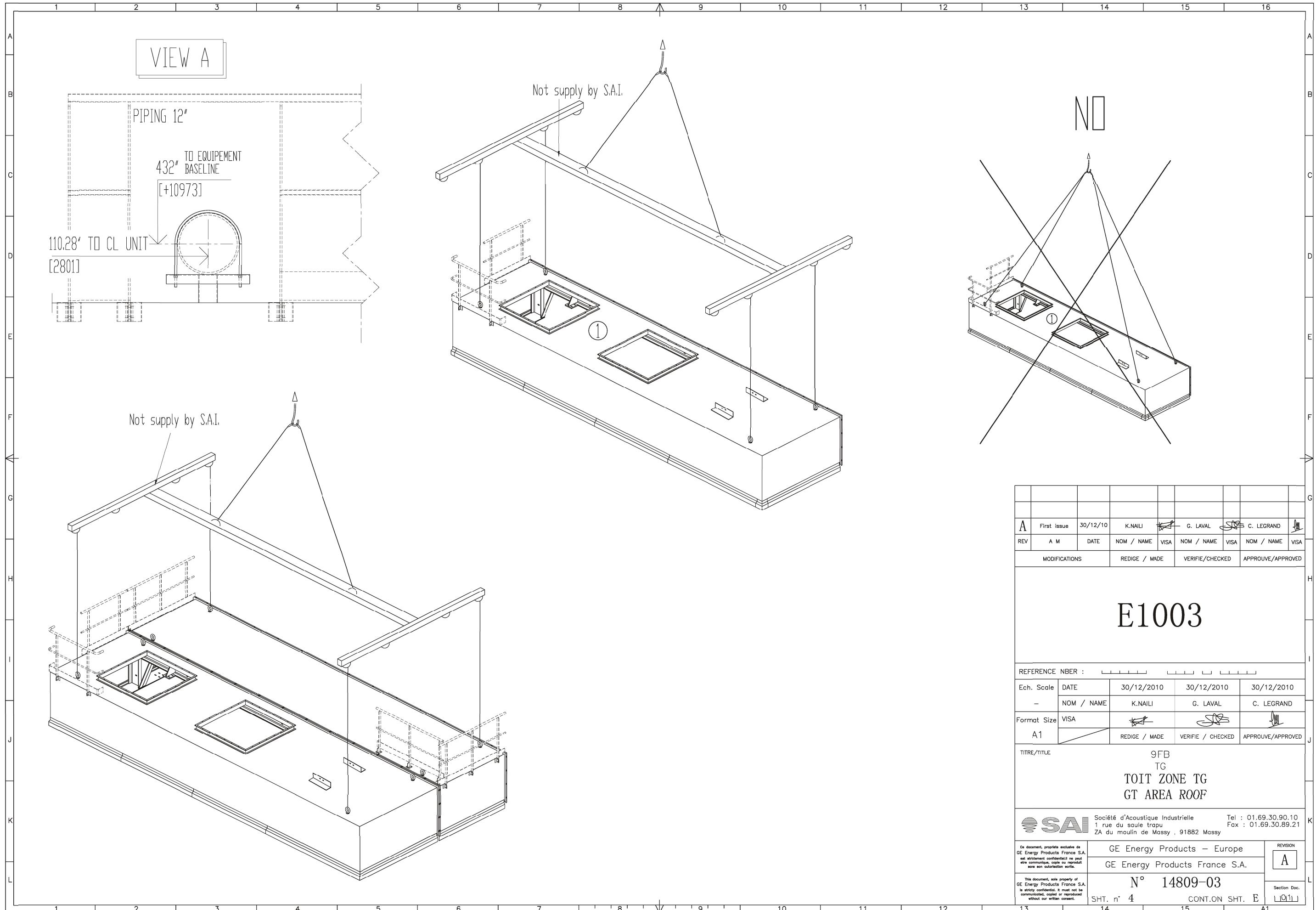
A	First issue	30/12/10	K.NAILI	G. LAVAL	C. LEGRAND			
REV	A M	DATE	NOM / NAME	VISA	NOM / NAME	VISA	NOM / NAME	VISA
MODIFICATIONS			REDIGE / MADE	VERIFIE/CHECKED	APPROUVE/APPROVED			
<h1>E1003</h1>								
REFERENCE NBER : _____								
Ech. Scale	DATE	30/12/2010	30/12/2010	30/12/2010				
-	NOM / NAME	K.NAILI	G. LAVAL	C. LEGRAND				
Format Size	VISA	REDACTED	REDACTED	REDACTED				
A1		REDIGE / MADE	VERIFIE / CHECKED	APPROUVE/APPROVED				
TITRE/TITLE		9FB TG TOIT ZONE TG GT AREA ROOF						
SAI		Société d'Acoustique Industrielle		1 rue du saule trapu		ZA du moulin de Massy . 91882 Massy		Tel : 01.69.30.90.10 Fax : 01.69.30.89.21
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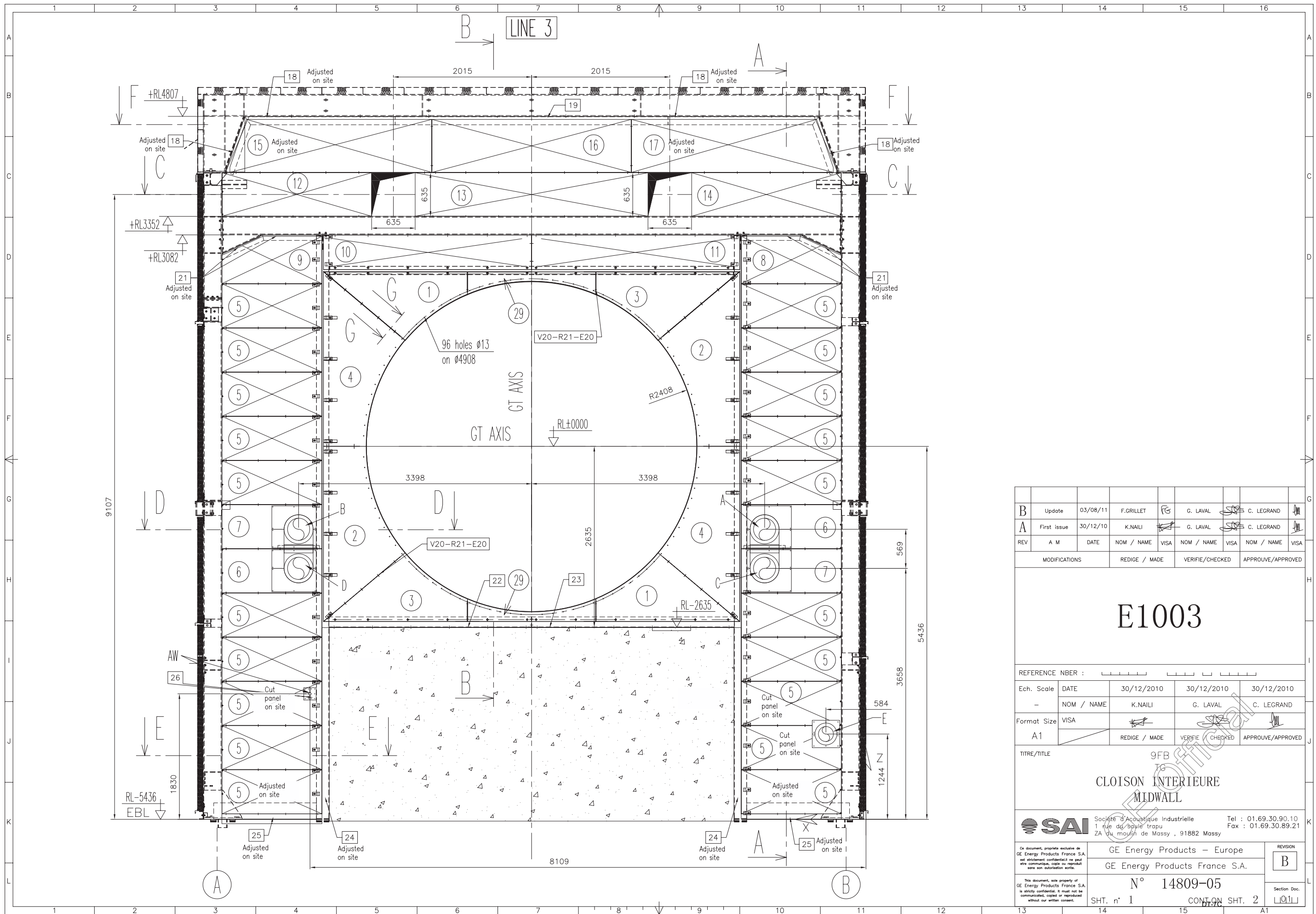
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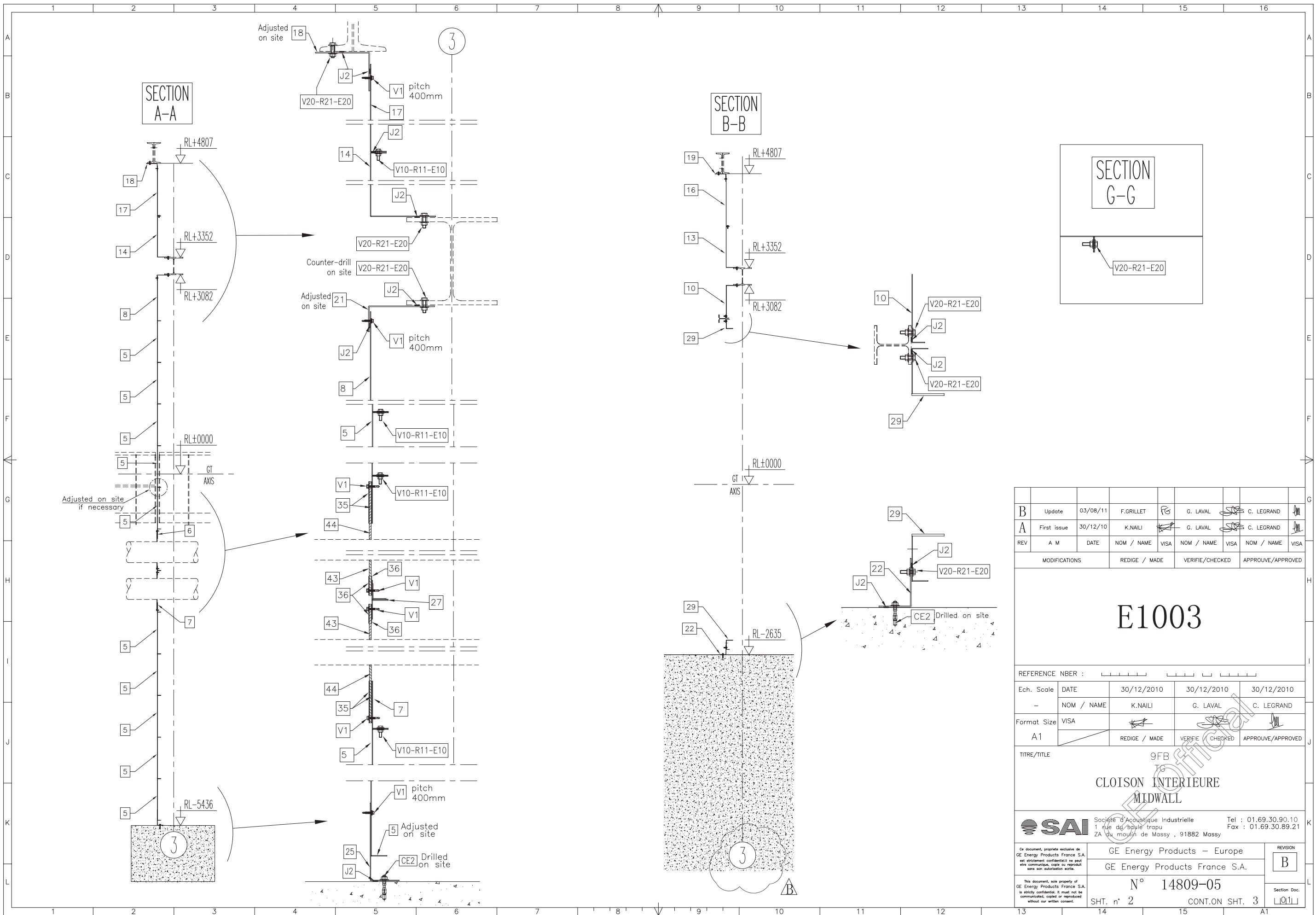
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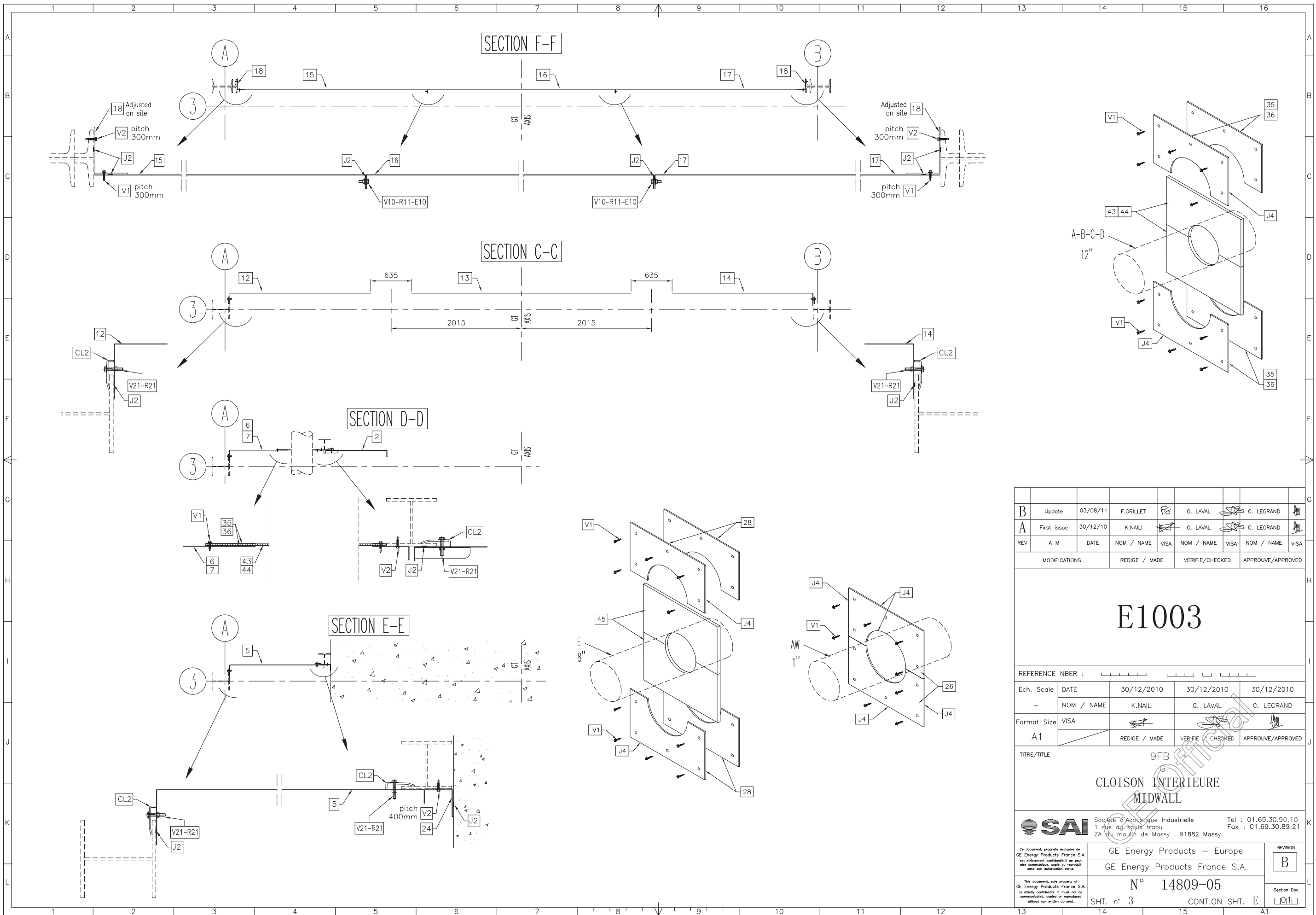
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TECHNICAL INFORMATION LETTER

9F.05 Aft Diffuser Outer Barrel Inspection and Modification

APPLICATION

This TIL is applicable to all 9F.05 gas turbines with a stiffening rib between the manways of the Aft Diffuser.

PURPOSE

The purpose of this TIL is to inform the affected users of an inspection and modification to the stiffening rib between the manways of the Aft Diffuser required for more reliable gas turbine operation. Failure to comply with this recommendation may result in circumferential Aft Diffuser cracking.

COMPLIANCE CATEGORY

M - Maintenance Identifies maintenance guidelines or best practices for reliable equipment operation.

C - Compliance Required Identifies the need for action to correct a condition that, if left uncorrected, may result in reduced equipment reliability or efficiency. Compliance may be required within a specific operating time.

A - Alert Failure to comply with the TIL could result in equipment damage or facility damage. Compliance is mandated within a specific operating time.

S - Safety Failure to comply with this TIL could result in personal injury. Compliance is mandated within a specific operating time.

TIMING CODE

1 Prior to Unit Startup / Prior to Continued Operation (forced outage condition)

2 At First Opportunity (next shutdown)

3 Prior to Operation of Affected System

4 At First Exposure of Component

5 At Scheduled Component Part Repair or Replacement.

6 Next Scheduled Outage

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BACKGROUND DISCUSSION

During planned inspection to the Exhaust Diffuser, two 9FB units were found with circumferential cracking on the Inner and Outer Barrel. The cracking to the Outer Barrel was observed in over 75% of the circumferential length around the Diffuser, mainly on the aft side of the stiffening rib that runs circumferentially between the manways.

The material analysis revealed that cracking initiated at multiple locations circumferentially and that the propagation was through the thickness of the stiffening rib. The root cause for the cracking was determined to be thermal stresses at the base of the stiffening rib.

Extensive circumferential cracks to the Outer Barrel may lead to component separation and hot-air leakages.

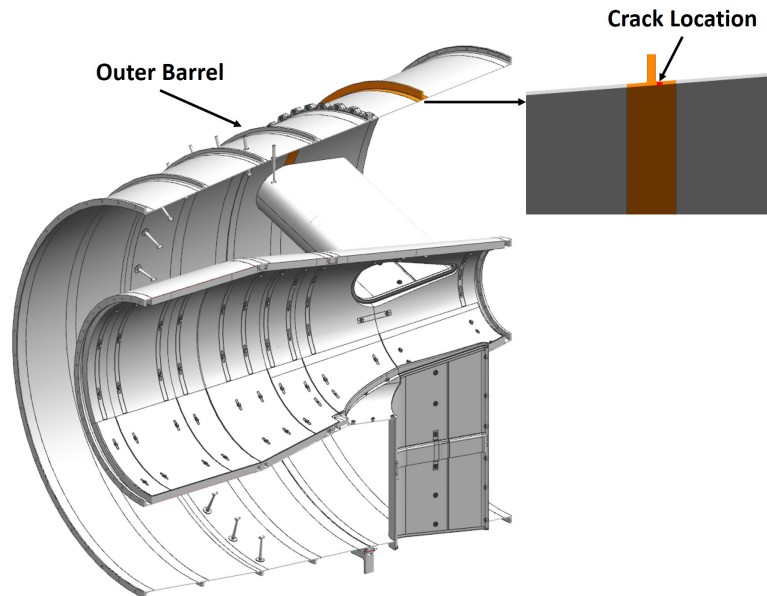


Figure 1: Outer Barrel Cracking Location

RECOMMENDATIONS

The following actions are recommended to help mitigate the risk of Outer Barrel cracking:

- Inspect the Outer Barrel from the flowpath side using red dye at the next opportunity as shown in **Figure2**. The inspection must be performed around the entire circumference of the Diffuser. If any indications found, please contact your local GE representative for further recommendations.

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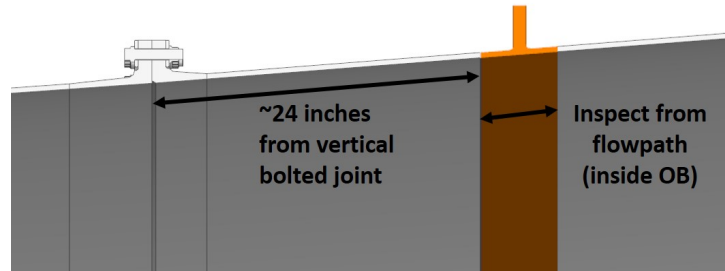


Figure 2: Inspection from the Flowpath

- At the next opportunity, remove the insulation and inspect the Outer Barrel from the outside using red dye as shown in **Figure 3**. The inspection must be performed around the entire circumference of the Diffuser. If any indications found, please contact your local GE representative for further recommendations.

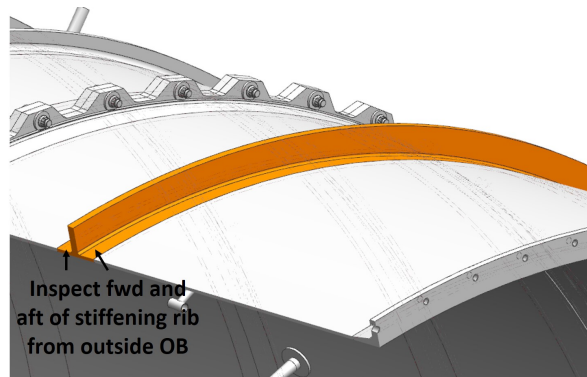


Figure 3: Inspection to the Outer Barrel from the Outside

- A modification to the stiffening rib between the three (3) manways on the aft section of the Diffuser has been developed and should be implemented at the next planned outage. Contact your local GE service representative with any questions related to this modification.

This TIL will be considered complete when all affected units have been inspected and have received the stiffener modification.

PLANNING INFORMATION

Compliance

- Compliance Category: **C**
- Timing Code: **4**

Manpower Skills

1 Field Engineer, 2 Millwrights, 1 NDT Inspector

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Scope of Work

3 X 12 hours/shift

TIL DISPOSITION

Disposition of TILs should be entered in local records and also in GE Power ServiceNow. Follow the below instructions for entering the disposition record;

- Log into the Power ServiceNow at https://gepowerpac.service-now.com/til_new/ using your GE SSO number and password.
- Select "TIL Disposition".
- Click on the TIL for the serial number you want to update.
- Choose the most appropriate "Disposition Status" and enter "Disposition Notes".
- Click "Save".

Contact your local GE Services representative for assistance or for additional information

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