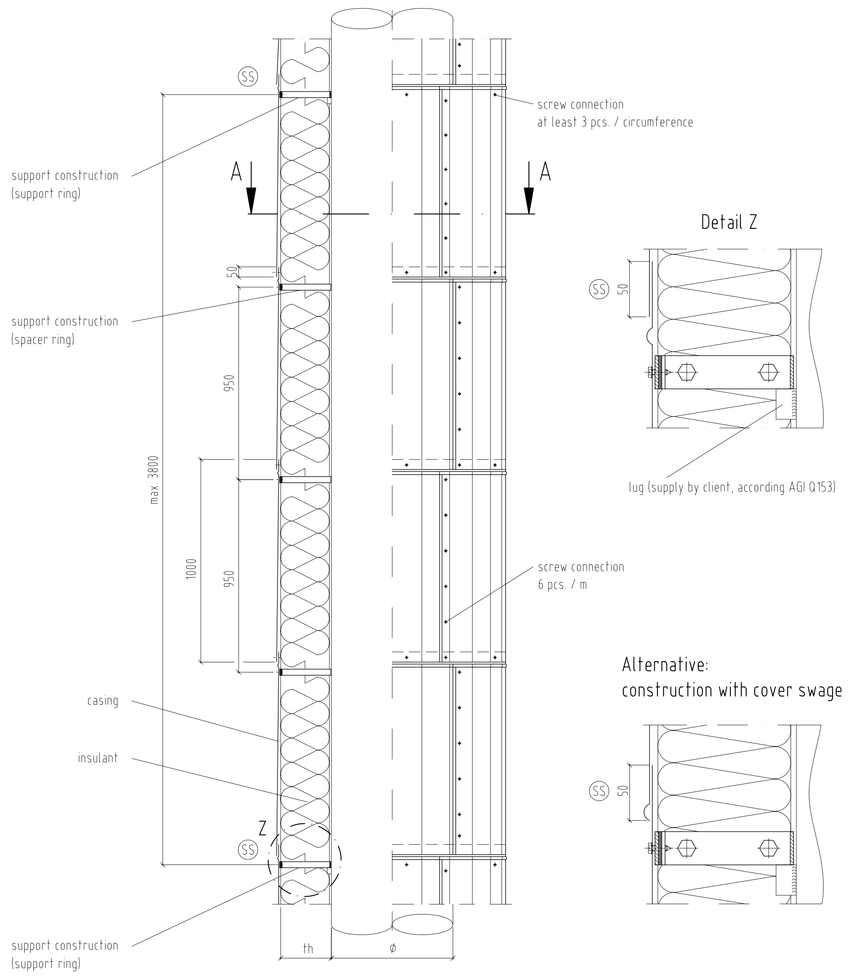
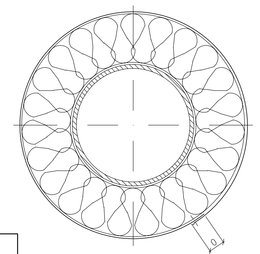
DETAIL:
Pipe vertical
construction: offset back swage



Detail Z

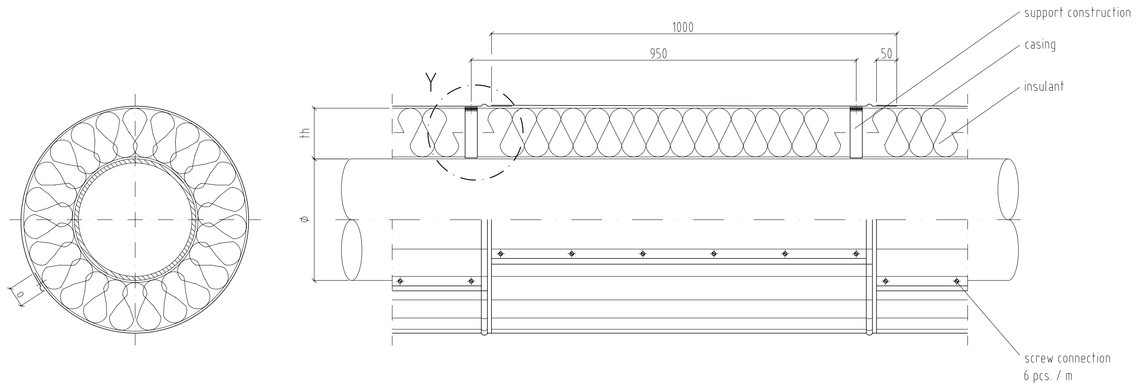
Alternative:
construction with cover swage

Section A-A

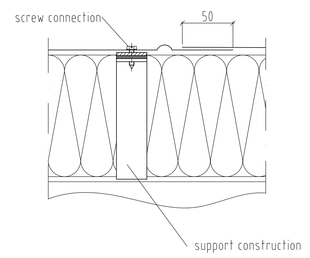


Circumference [mm] DIN 4140	Overlap (o) [mm] DIN 4140
bis 400	30
400 - 800	40
> 800	50

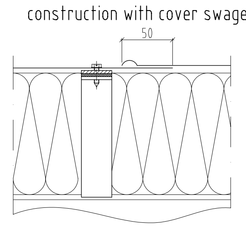
DETAIL:
Pipe horizontal
construction: offset back swage



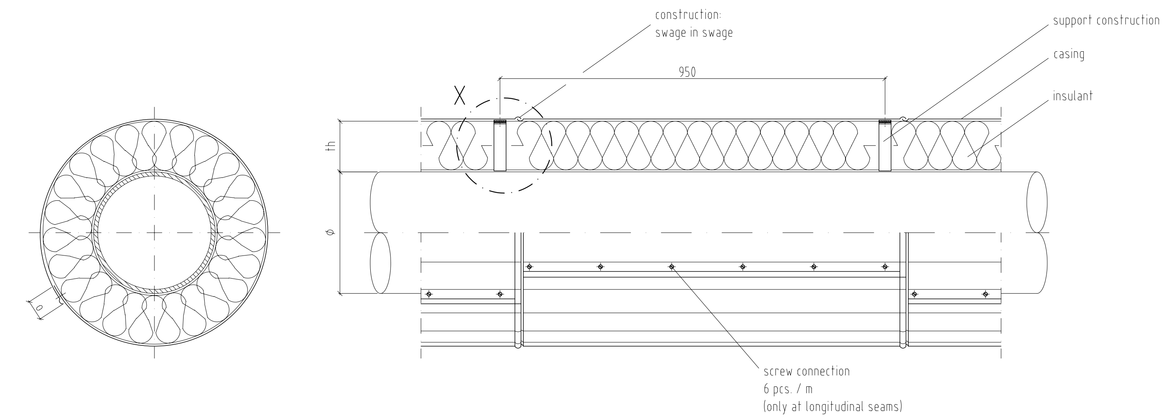
Detail Y



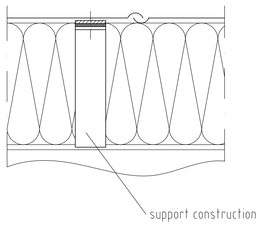
Alternative:
construction with cover swage



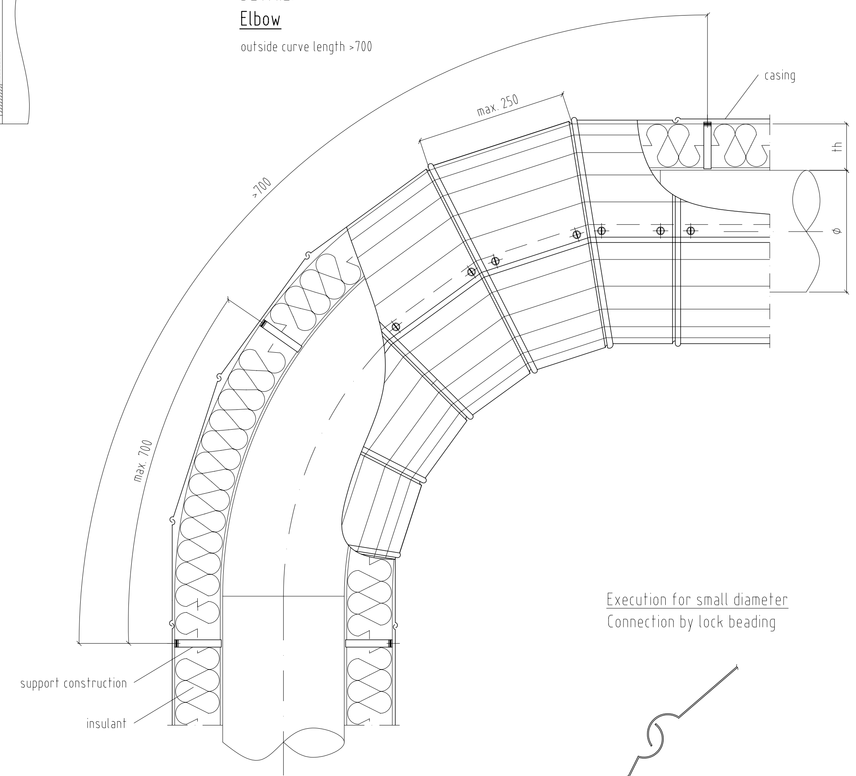
DETAIL:
Pipe horizontal
pipe with slight termal extension



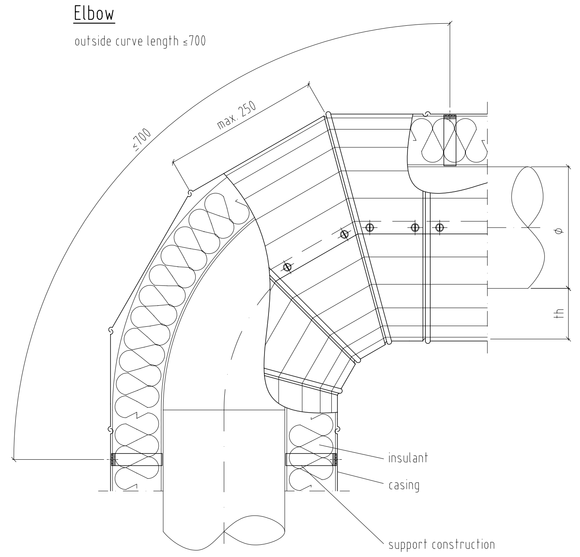
Detail X



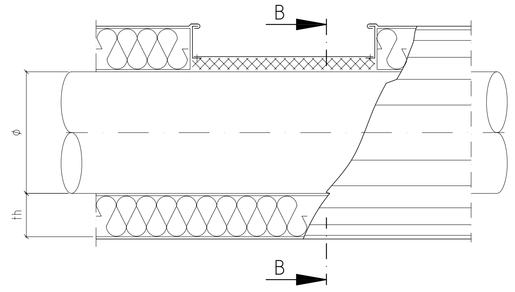
DETAIL:
Elbow
outside curve length >700



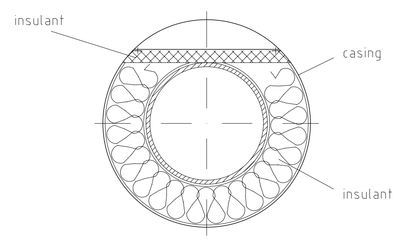
DETAIL:
Elbow
outside curve length ≤700



DETAIL:
Flattening



B-B

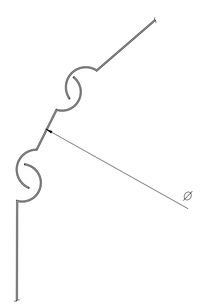


Legend:
th = insulation thickness
ø = diameter pipe
o = overlapping
SS = sliding seam

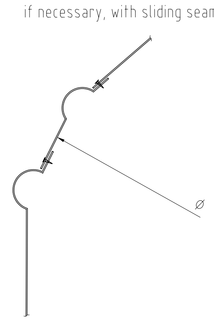
Quantity of distancers per ring according DIN 4140–2008

	Insulation thickness													
DN	40	50	60	80	100	120	140	160	180	200	220	240	260	280	300
65	–	–	3	3	3	3	3	4	4	4	5	5	5	5	6
80	–	–	3	3	3	3	3	4	4	4	5	5	5	6	6
100	–	–	3	3	3	3	4	4	4	5	5	5	5	6	6
125	3	3	3	3	3	3	4	4	4	5	5	5	6	6	6
150	3	3	3	3	3	4	4	4	5	5	5	6	6	6	7
200	3	3	3	3	4	4	4	5	5	5	6	6	6	7	7
250	3	3	4	4	4	5	5	5	5	6	6	6	7	7	7
300	4	4	4	4	5	5	5	6	6	6	6	7	7	7	8
350	4	4	4	5	5	5	5	6	6	6	7	7	7	8	8
400	4	4	5	5	5	6	6	6	6	7	7	7	8	8	8
450	5	5	5	5	6	6	6	7	7	7	7	8	8	8	9
500	5	5	5	6	6	6	7	7	7	8	8	8	9	9	9
600	6	6	6	6	7	7	7	8	8	8	9	9	9	10	10
700	7	7	7	7	8	8	8	9	9	9	9	10	10	10	11
>700	distance max. 400 mm on outside ring														

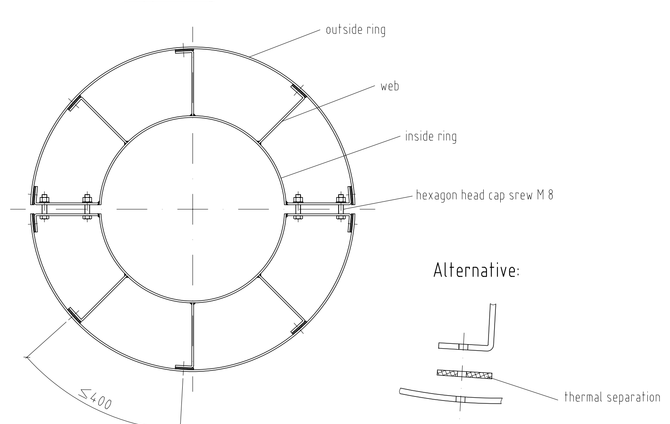
Execution for small diameter
Connection by lock beading



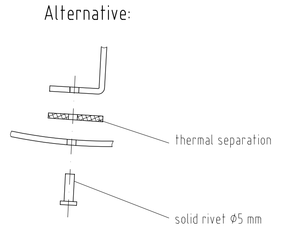
Execution for bigger diameters
with offset back beading
if necessary, with sliding seam



DETAIL:
Support ring

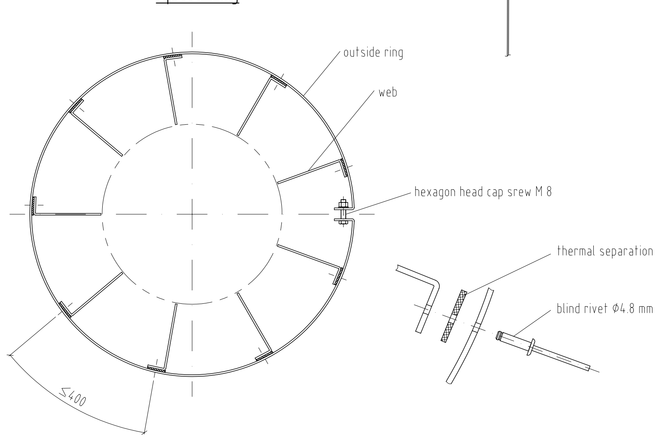


Alternative:

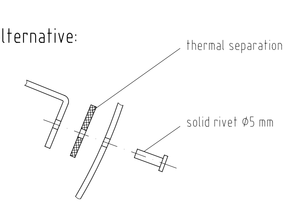


up to 350°C	outside-/inside ring + webs from 1.0037 (S235JR)
form 350°C up to 530°C	outside ring from 1.0037 (S235JR) inside ring + webs from 1.5415 (16 Mo 3)
above 530°C	outside ring from 1.0037 (S235JR) inside ring + webs from 1.4512 or 1.7335 (13 CrMo 44)

DETAIL:
Spacer ring

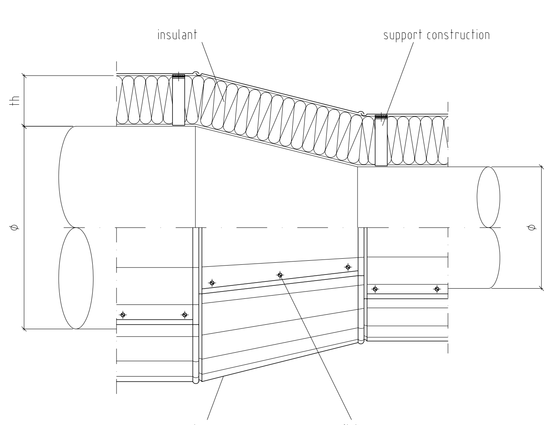


Alternative:

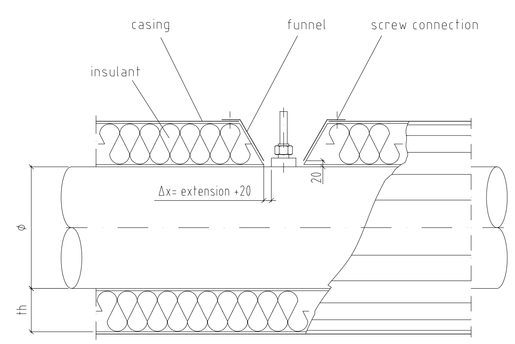


up to 350°C	outside ring + webs from 1.0037 (S235JR)
from 350°C up to 530°C	outside ring from 1.0037 (S235JR) webs from 1.5415 (16 Mo 3)
above 530°C	outside ring from 1.0037 (S235JR) webs from 1.4512 or 1.7335 (13 CrMo 44)

DETAIL:
Reducer



DETAIL:
Funnel



DRAWINGS VALID FOR UNIT -1 AND UNIT-2

Rev.	Date	Created by	Checked by	Approved by	Description	Status
2	21.10.09	BPUR	AMAP	MSPL	MODIFICATION IN TITLE BLOCK	
1	09.10.09	BPUR	AMAP	MSPL	SUPPLIER CHANGED TO G&H/OKI	
0	01.05.09	RVP	IC	PRS	FIRST ISSUE	

Project (Проект)
Maritza East I Power Station
ТЕЦ Марица Изток 1

Company (Възложител):
AES

Space for stamp of Municipality of Galabovo
Място за печат на Община Гълъбово

Space for further stamps
Място за допълнителни печати

Area for Stamp of EQE Control OOD (ICS)
Място за печат на EQE Control ООД (Незав. надзор)

ASpace for stamp of authorized Bulgarian Designer
Място за печат на лицензиран български проектант

Main Contractor / Главен изпълнител
ALSTOM
Power Generation AG
Power Boiler GmbH

Partner of Main Contractor / Партньор на главния изпълнител

Resp. dept. /Отговорен отдел: OKI / G+H ENGINEERING	Created by / Изготвил: BPUR	Checked by / Проверил: AMAP	Approved by / Одобрил: MSPL
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