

ULTRASONIC THICKNESS MEASUREMENTS AND VISUAL INSPECTIONS

- 1 FURNACE FRONT WALL-1 6318904
  - 2 FURNACE REAR WALL-2 6318904
  - 3 FURNACE LEFT SIDE WALL-3 6318904
  - 4 FURNACE RIGHT SIDE WALL-4 6318904
  - 5 WING WALL SUPERHEATER I-5 6318904
  - 6 EVAPORATIVE WING WALL I-6 6318904
  - 7 EVAPORATIVE WING WALL II 6318904
  - 8 EVAPORATIVE WING WALL III 6318904
  - 9 FURNACE ROOF 63189074
  - 10 SUPERHEATER II-7 63189084
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  - 18 INTREX REHEATER II A-15 63189164
  - 19 INTREX REHEATER II B-16 63189174
  - 20 INTREX SUPERHEATER III-16 63189184
- 18 Hanger Tubes*

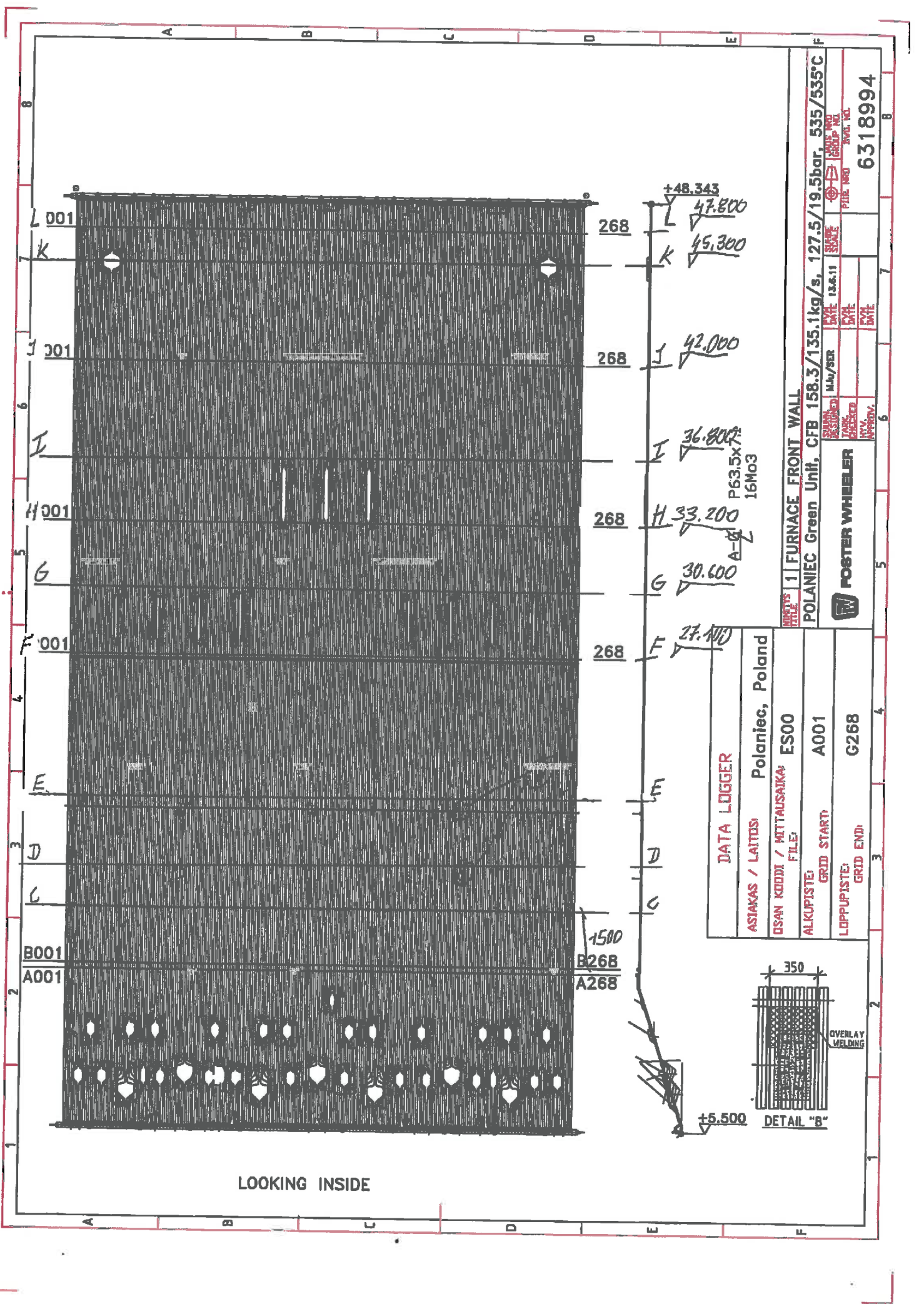
SECTIONAL DRAWING

POLANIEC Green Unit, CFB 158.3/135.1kg/s, 127.5/19.5bar, 535/535°C



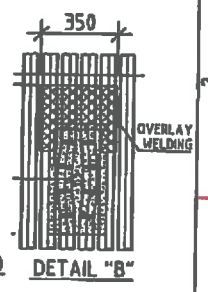
DESIGNED	DATE	SCALE	GROUP NO.
MAN/SER	13.6.11		
CHECKED	DATE		
APPROV.	DATE		

6318984



LOOKING INSIDE

DATA LOGGER	Polaniec, Poland
ASTAKAS / LAITOSI	ES00
OSAN KOODI / METTÄSAIKKA FILE:	A001
ALKUPISTE: GRID START	G268
LOPPUPISTE: GRID END	



**1 FURNACE FRONT WALL**  
**POLANIEC Green Unit, CFB 158.3/135.1kg/s, 127.5/19.5bar, 535/535°C**

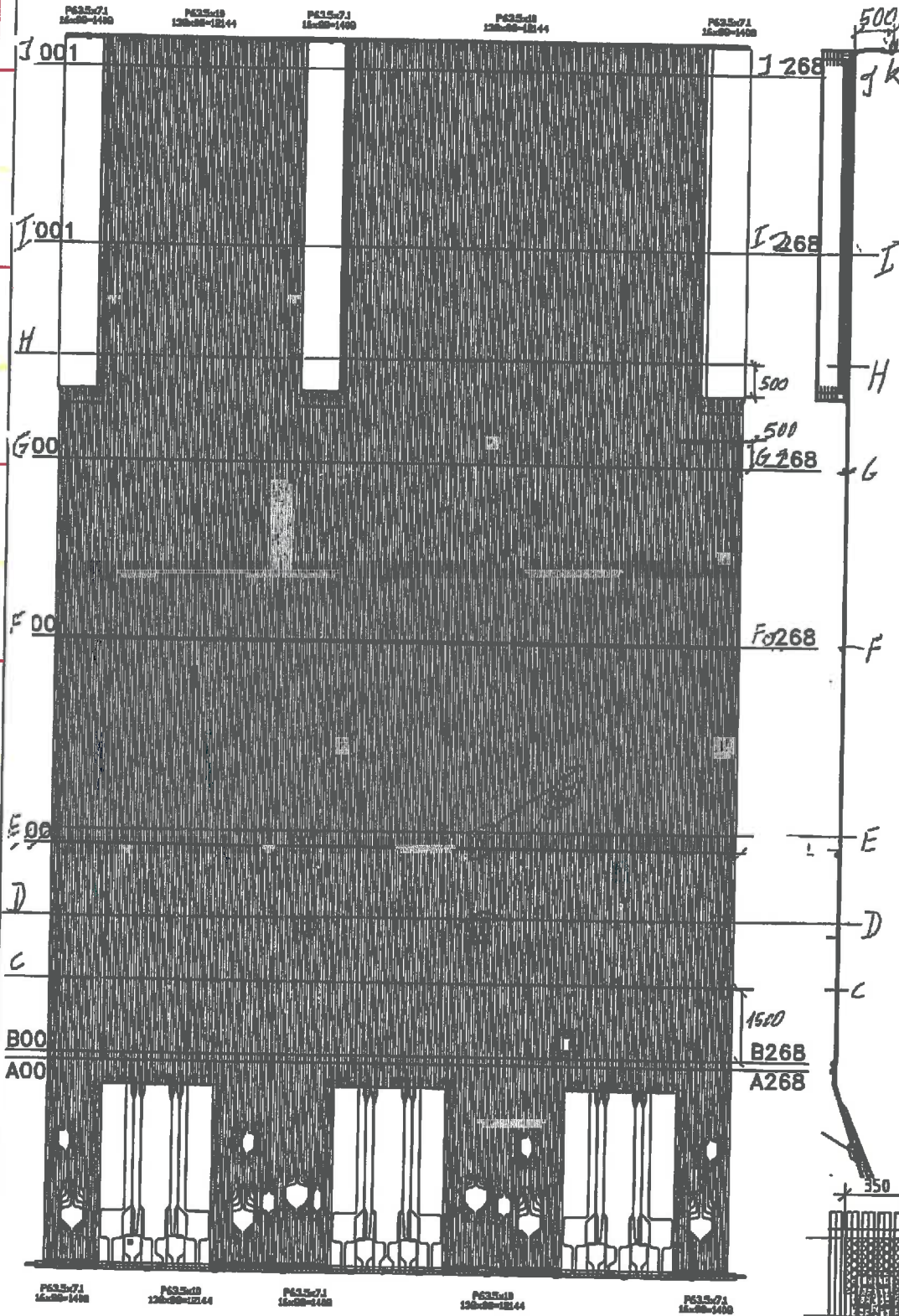
DATE	13.6.11	SCALE	
DATE		SCALE	
DATE		SCALE	

DRAWN: [Signature]    CHECKED: [Signature]    DATE: [Signature]    DATE: [Signature]  
 PROJECT NO. [Signature]    DRAWING NO. [Signature]    SCALE: [Signature]    DATE: [Signature]

**FOSTER WHEELER**

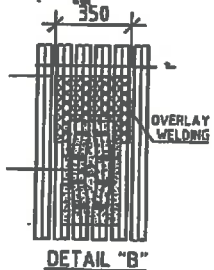
**6318994**

FURNACE ROOF



PROJECT TITLE		1 FURNACE REAR WALL	
CLIENT		POLANIEC Green Unit, CFB 158.3/135.1kg/s, 127.5/19.5bar, 535/535°C	
DESIGNED	DATE	SCALE	DATE
CHECKED	DATE	DATE	DATE
APPROVED	DATE	DATE	DATE
DRAWN BY		FOSTER WHEELER	
PROJECT NO.		6319004	

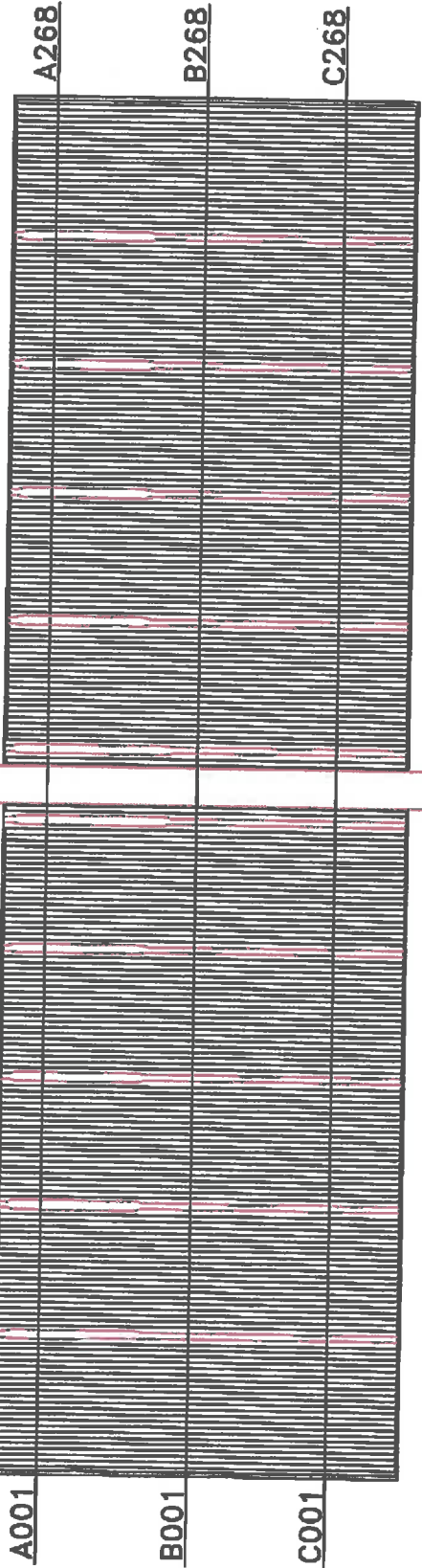
DATA LOGGER	Polaniec, Poland
ASIAKAS / LAITIS	ES00
OSAN KODDI / MITTAUSAIKAI FILE	A001
ALKUPISTE	G268
GRID START	
LOPPUPISTE	
GRID END	



A-E P635x71  
16Mo3  
G-K P635x10  
16Mo3

LOOKING INSIDE

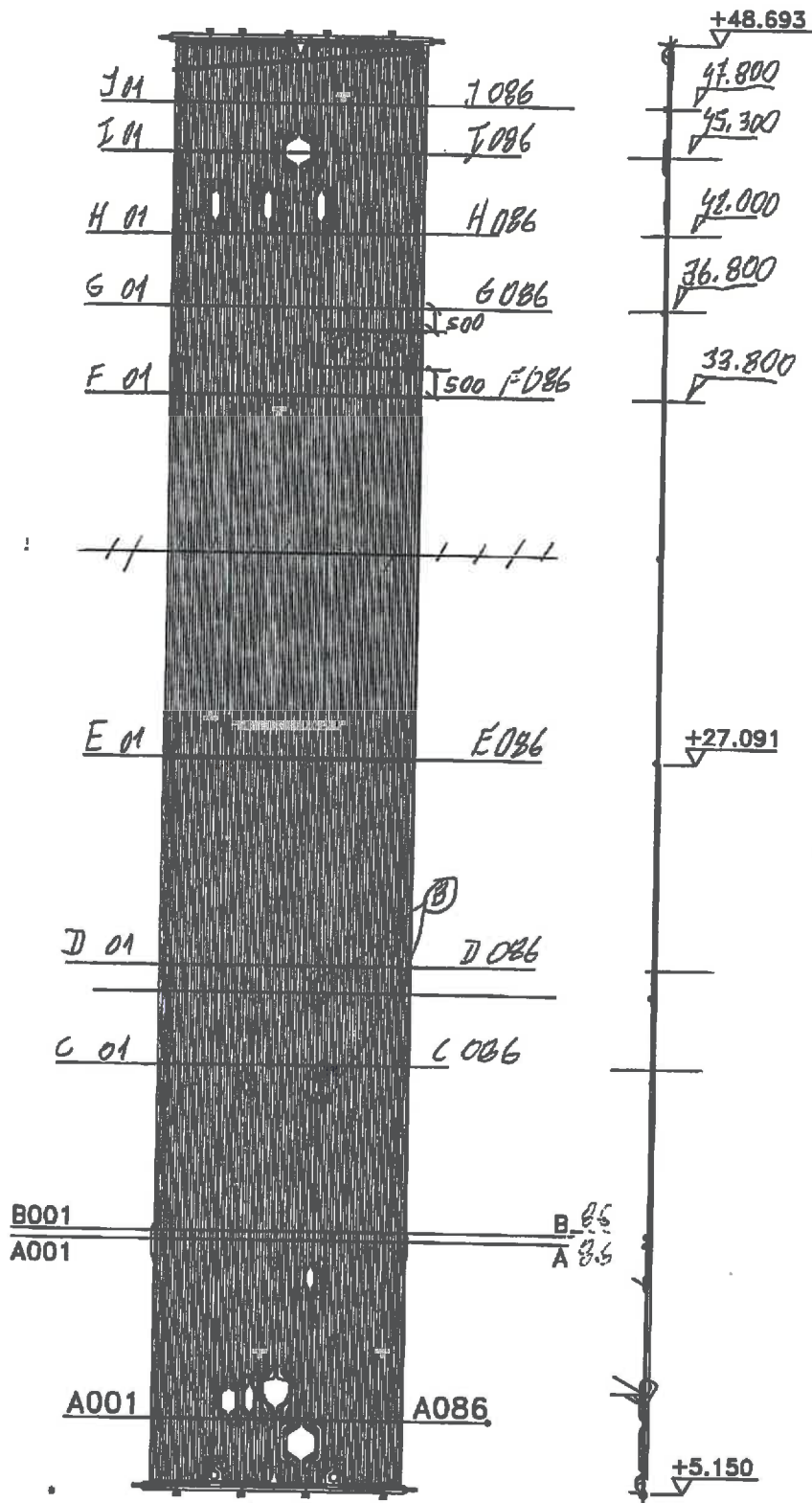
+48.343



<b>DATA LOGGER</b>	
ASIAKAS / LAITOS:	Polaniec, Poland
DSAN KOODI / MITTAUSAIKA / FILE:	ES00
ALKUPISTE:	A001
LOPPUPISTE:	C268

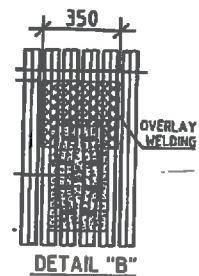
A-C P63.5x7.1  
16Mo3

<b>SOVELY'S TITLE</b>		<b>4   FURNACE ROOF</b>	
POLANIEC Green Unit, CFB 158.3/135.1kg/s, 127.5/19.5bar, 535/535°C			
ISSUED	DATE	BY	SCALE
REVISION	DATE	BY	SCALE
CHECKED	DATE	BY	SCALE
APP. / APPROV.	DATE	BY	SCALE
<b>FOSTER WHEELER</b>		6319074	



LOOKING INSIDE

A-A J P63.5x7.1  
16Mo3



DATA LOGGER	Polaniec, Poland
ASIAKAS / LAITTOIS / FILE:	OSAN KOODI / MITTAUSAIKA VS00
ALKIPISTE / GRID START:	A001
LOPPUPISTE / GRID END:	G086

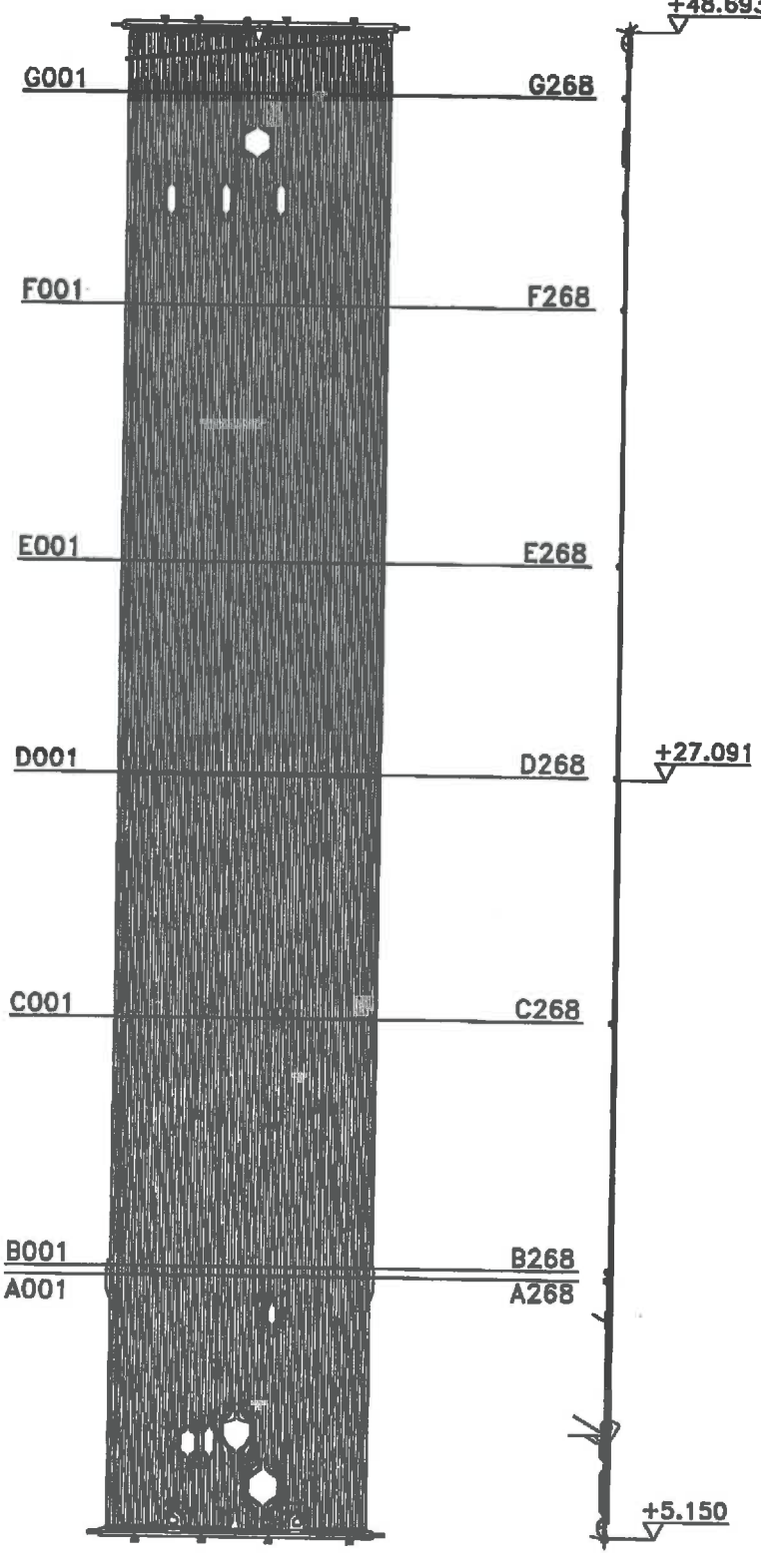
1 FURNACE LEFT SIDE WALL  
POLANIEC Green Unit, CFB 158.3/135.1kg/s, 127.5/19.5bar, 535/535°C

NO. OF SHEETS	1	DATE	13.8.11
SCALE		DATE	
DESIGNED		DATE	
CHECKED		DATE	
APPROVED		DATE	

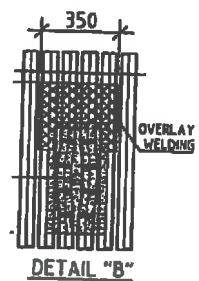
MANU/SEN  
JOB N° 6319014  
PROJ. N°  
DWG. N°

**FOSTER WHEELER**

6319014



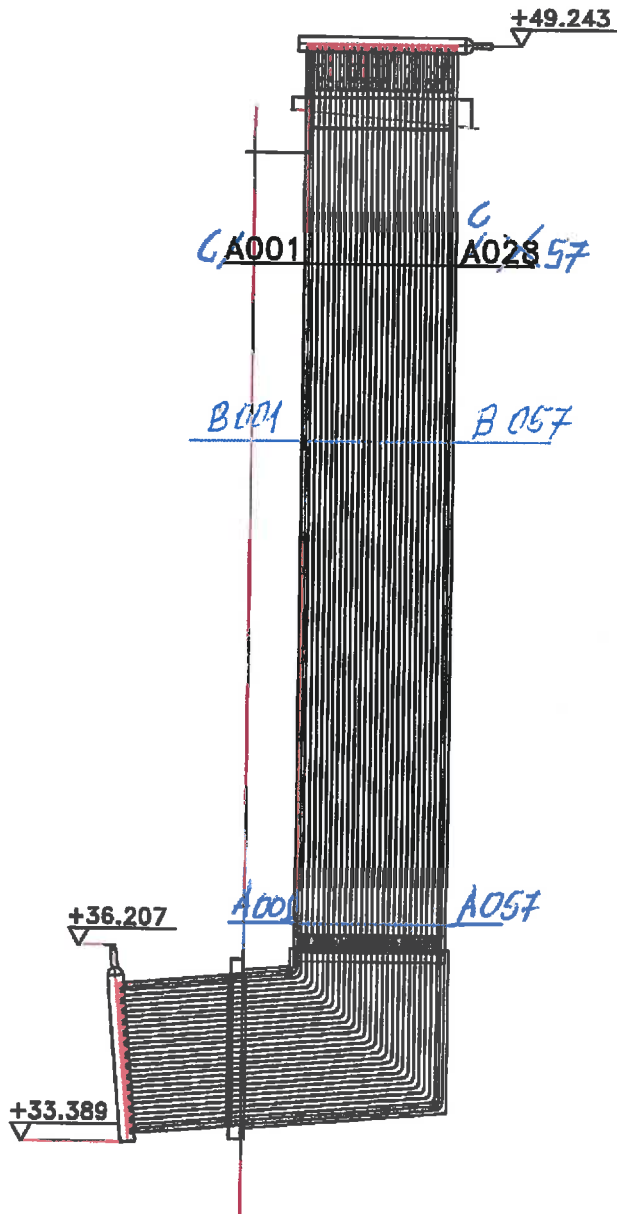
LOOKING INSIDE



<b>DATA LOGGER</b>	
ASIAKAS / LAITOS:	Polaniec, Poland
OSAN KOODI / MITTAUSAIKA / FILE:	ES00
ALKUPISTE:	A001
LOPPIPISTE:	G086
GRID START:	
GRID END:	

A-G P63.5x7.1  
16Mo3

SUBMITTAL TITLE: 1 FURNACE RIGHT SIDE WALL	
POLANIEC Green Unit, CFB 158.3/135.1kg/s, 127.5/19.5bar, 535/535°C	
DATE: 19.6.11	DATE: 19.6.11
SCALE: 1:1	SCALE: 1:1
GROUP NO.:	GROUP NO.:
DATE CHECKED:	DATE CHECKED:
BY:	BY:
DATE:	DATE:
6319024	



DATA LOGGER	Polaniec, Poland
ASIAKAS / LAITOS:	ES00
OSAN KOODI / MITTAUSAIKA:	A001
FILE:	F028
ALKUPISTE:	
GRID START:	
LOPPUPISTE:	
GRID END:	

A-C P63.5x7.1  
16Mo3

PROJECT TITLE	3 EVAPORATIVE WING WALL	SCALE	DATE	DATE	DATE	DATE	DATE
CLIENT	POLANIEC Green Unft, CFB	SCALE	DATE	DATE	DATE	DATE	DATE
DESIGNED BY	Mu/SER	SCALE	DATE	DATE	DATE	DATE	DATE
CHECKED BY		SCALE	DATE	DATE	DATE	DATE	DATE
APPROVED BY		SCALE	DATE	DATE	DATE	DATE	DATE
PROJECT NO.	6319044	SCALE	DATE	DATE	DATE	DATE	DATE

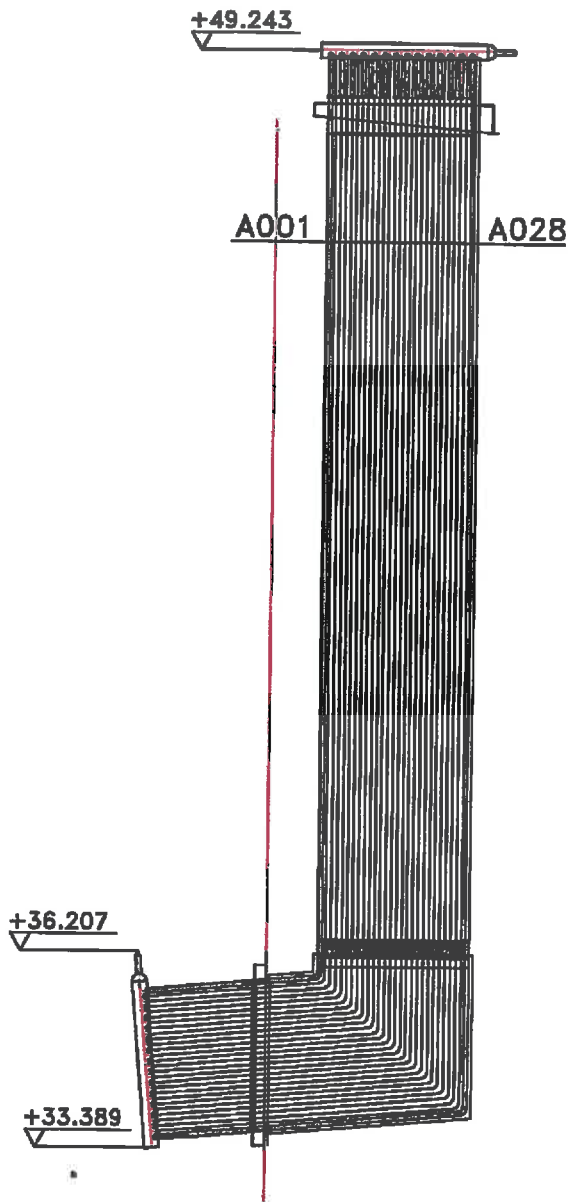


FRONT WALL

RIGHT WALL


123  
111  
FRONT WALL

LEFT WALL

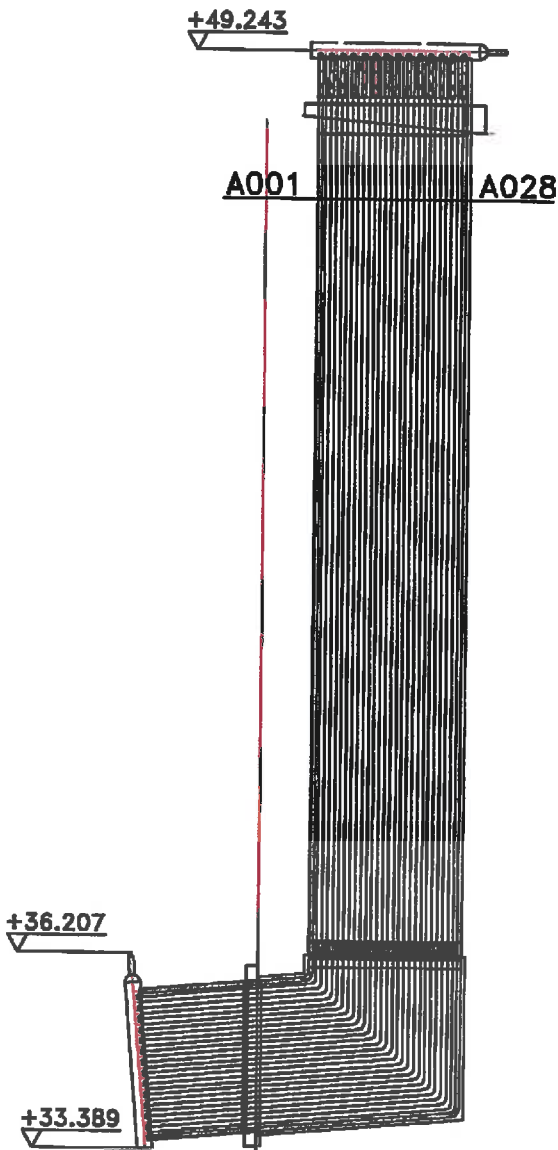


A-C P63.5x7.1  
16Mo3

DATA LOGGER	
ASIAKAS / LAITOS:	Polaniec, Poland
ESAN KOODI / MITTAUSAIKKA FILE:	ES00
ALKUPISTE / GRID START:	A001
LOPPIPISTE / GRID END:	F028

3 EVAPORATIVE WING WALL II		DATE 13.6.11		SCALE		DATE 13.6.11		DATE		DATE	
POLANIEC Green Unit, CFB 158.3/135.1kg/s, 127.5/19.5bar, 535/535°C		SUMMA		MAY/SEK		PÄIV. NRO		DIVE. NÖ.		DIVE. NÖ.	
 <b>FOSTER WHEELER</b>		TARK. OIKO.		TARK. OIKO.		TARK. OIKO.		TARK. OIKO.		TARK. OIKO.	
											6319054





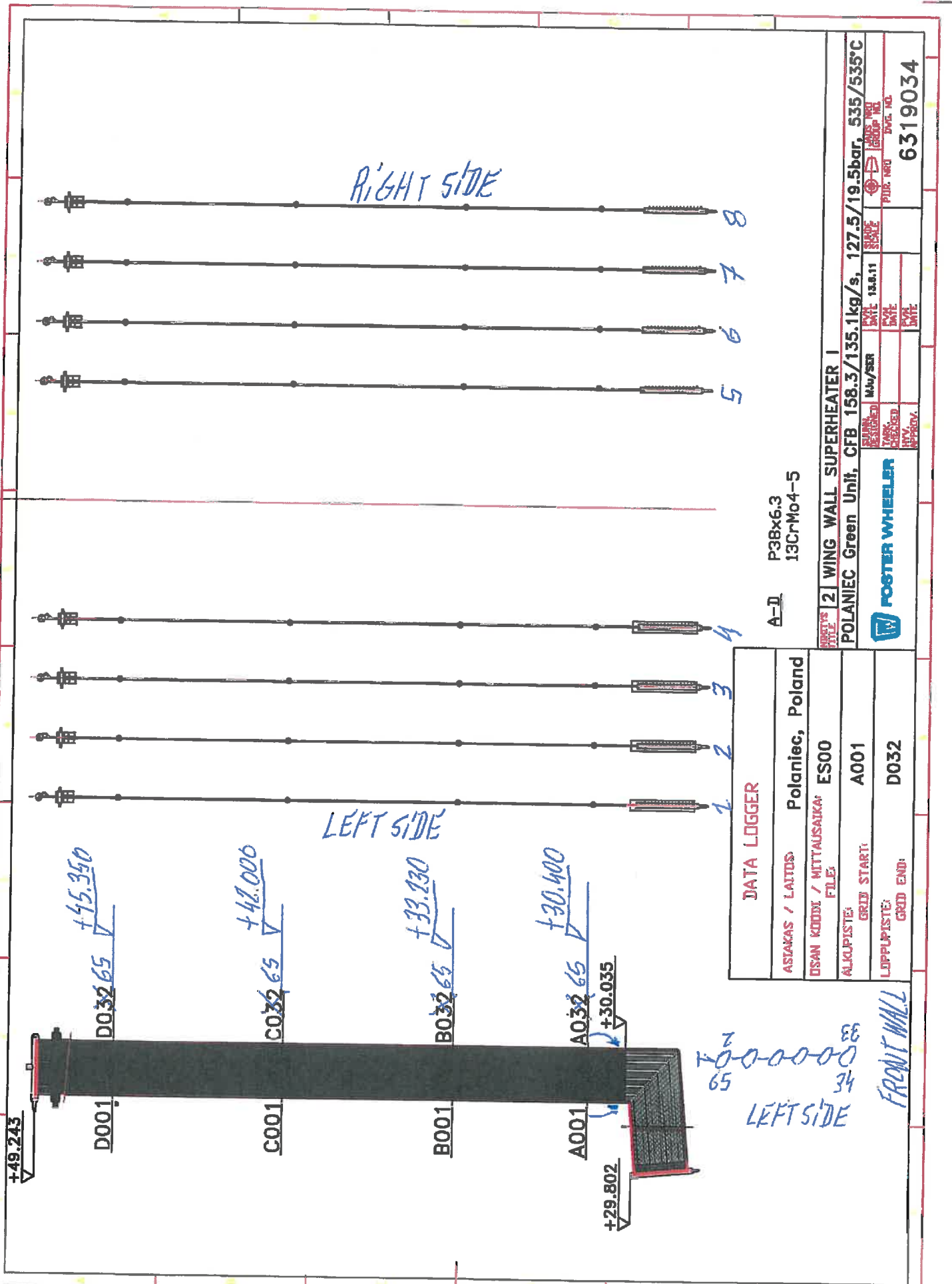
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ASIAKAS / LAITOS:	Polanlec, Poland
OSAN KODI / MITTAUSAIKA:	ES00
ALKUJASTE:	A001
LOPPUJASTE:	F028

A-C P63.5x7.1  
16Mo3

<b>3</b> EVAPORATIVE WING WALL III	
POLANIEC Green Unit, CFB 158.3/135.1kg/s, 127.5/19.5bar, 535/535°C	
SCALE	DATE 13.8.11
GROUP NO.	DATE
PIEC NO.	DATE
DOG. NO.	DATE
<b>6319064</b>	



EXAMIN. DATE  
DESIGNED DATE  
CHECKED DATE  
APPROV. DATE



RIGHT SIDE

LEFT SIDE

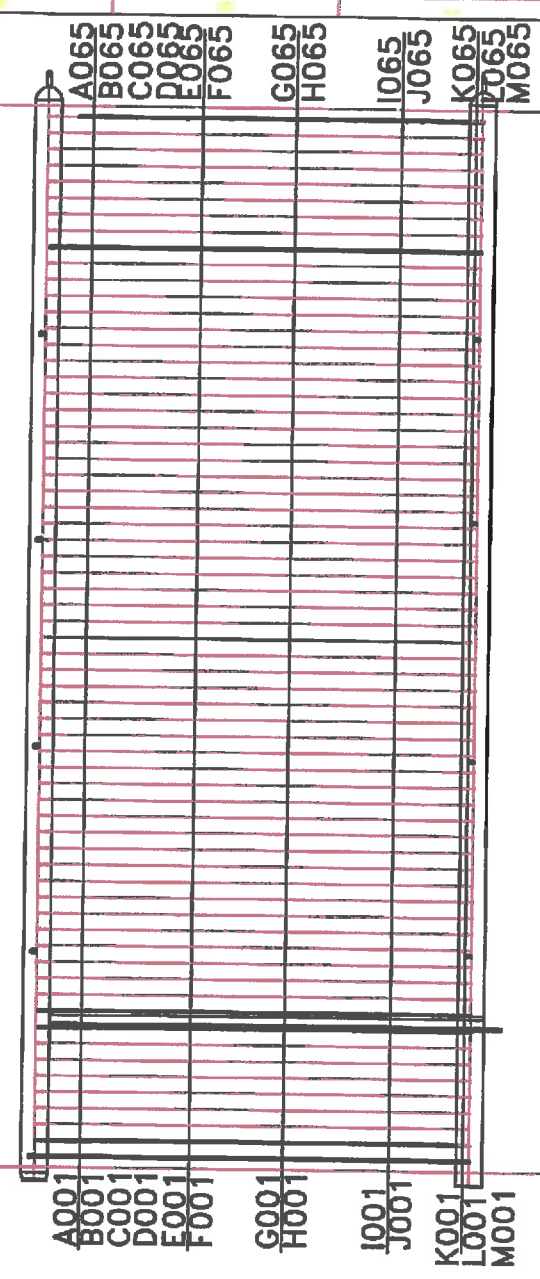
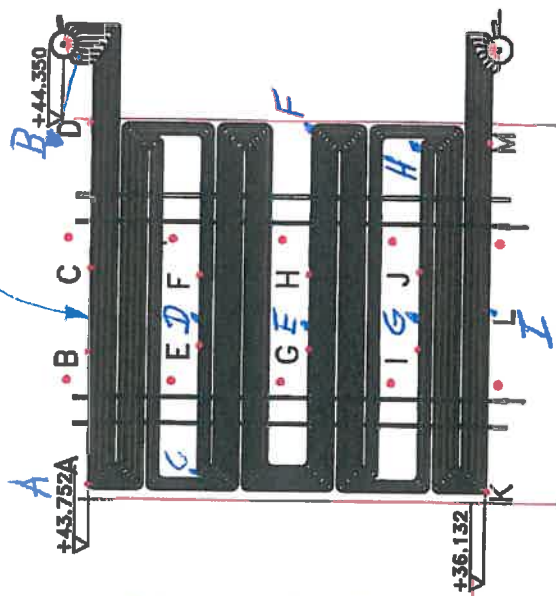
DATA LOGGER	
ASTAKAS / LAITOS:	Polaniec, Poland
OSAN KODDI / MITTAUSAIKA / FILE:	ES00
ALUUPISTE / GRID START:	A001
LOPPUPISTE / GRID END:	D032

A-D P38x6.3  
13CrMo4-5

PARTS TITLE		DATE		DATE		DATE	
12 WING WALL SUPERHEATER I		19.8.11		19.8.11		19.8.11	
POLANIEC Green Unit, CFB 158.3/135.1kg/s, 127.5/19.5bar, 535/535°C		DRAWN		CHECKED		APPROVED	
FOSTER WHEELER		MAY/SER		SCALE		PIB. NRJ DEG. NO.	
6319034							

FRONT WALL  
LEFT SIDE  
2  
65  
34  
88

*Anti erosion shields*

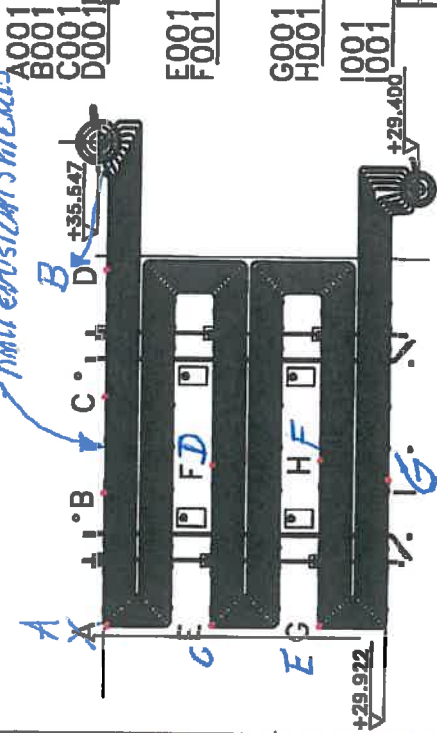


DATA LOGGER	ASIAKAS / LAITOS: Polaniec, Poland
OSAN KOODI / MITTAUSAIKAI FILE:	SH II
ALKUPISTE: GRID START:	A001
LOPPUPISTE: GRID END:	N065

A-M P38x5.6  
X7CrNiNb18-10

PROPERTY TITLE: 5 SUPERHEATER II		POLANIEC Green Unit, CFB 158.3/135.1kg/s, 127.5/19.5bar, 535/535°C	
DESIGNED	DATE	SCALE	DATE
CHECKED	DATE	SCALE	DATE
APPROVED	DATE	SCALE	DATE
FORSTER WHEELER		6319084	

Anti erosion shields



A097  
B097  
C097  
D097  
E097  
F097  
G097  
H097  
I097

A001  
B001  
C001  
D001  
E001  
F001  
G001  
H001  
I001

A-I P38x5.6  
X7C\*NINb18-10

NO. TITLE 6 REHEATER I

POLANIEC Green Unit, CFB 158.3/135.1kg/s, 127.5/19.5bar, 535/535°C

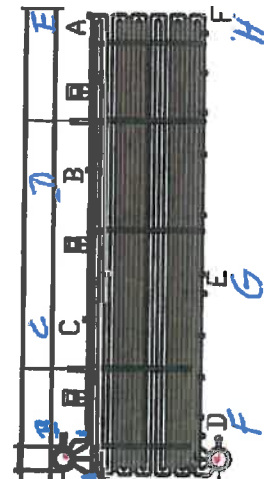
SEARCH NO.	SCALE	DATE	13.6.11
GROUP NO.	DATE	DATE	DATE
PIEC. NO.	DATE	DATE	DATE
DATE	DATE	DATE	DATE
DATE	DATE	DATE	DATE
DATE	DATE	DATE	DATE
DATE	DATE	DATE	DATE



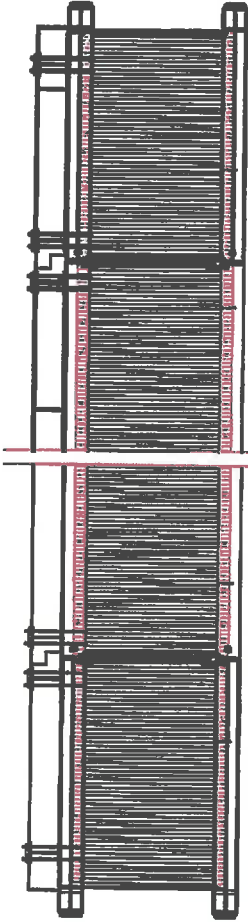
6319094

DATA LOGGER	
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OSAN KOODI / MITTAUSAIKAI FILE:	ES00
ALKUPISTE:	A001
GRID START:	
LOPPUKASTE:	I097
GRID END:	

+25.571



+23.346



**DATA LOGGER**

ASIAKAS / LAITOS:	Polaniec, Poland
ESAN KOODI / MITTAUSAIKA / FILE:	ECO II
ALKUPISTE / GRID START:	A001
LOPPIPISTE / GRID END:	F334

A-E P31.8x4,5  
16Mo3

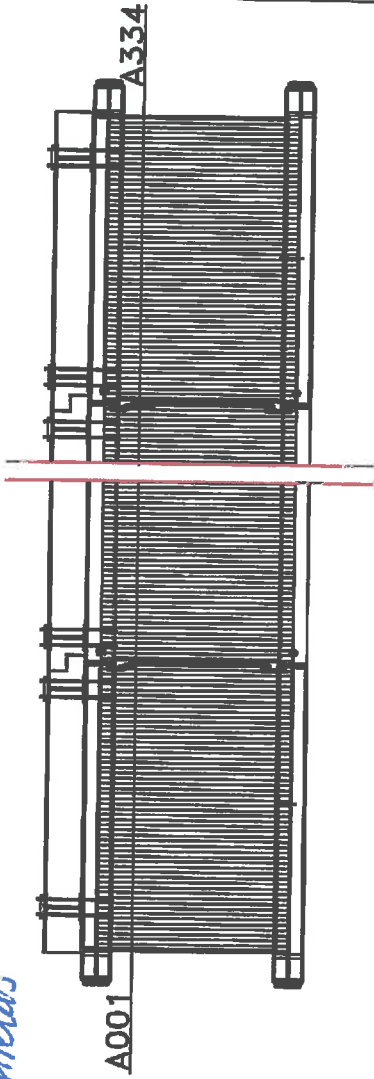
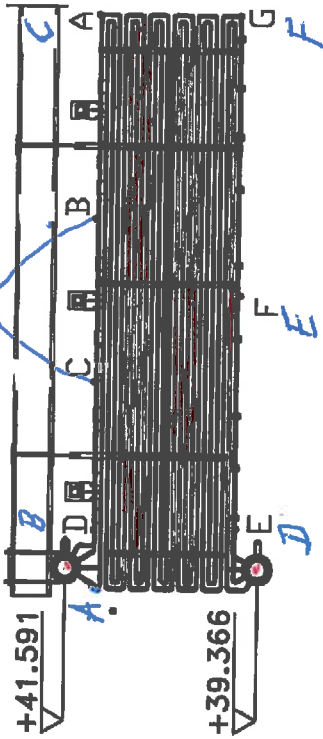
9 ECONOMIZER I

POLANIEC Green Unit, CFB 158.3/135.1kg/s, 127.5/19.5bar, 535/535°C

SOLAR REGISTERED	DATE 13.8.11	SCALE	PIK NO	DATE NO.
ISSUED	DATE	DATE	DATE	DATE
FORWHEELER				
				6319124



*Anti-erosion shields*



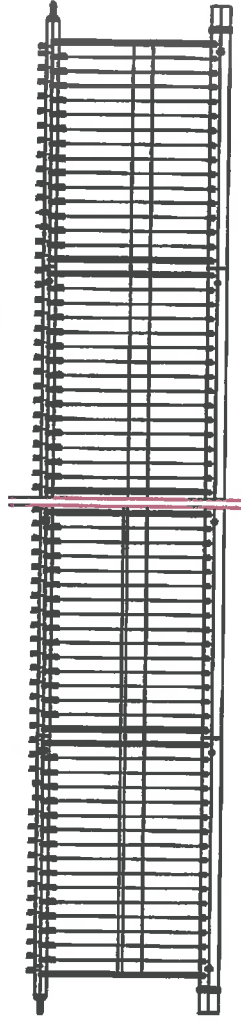
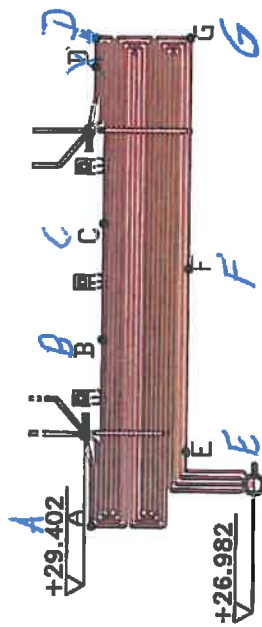
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ASIAKAS / LAITOS:	Polaniec, Poland
OSAN KOODI / MITTAUSAIKA-FILE:	ECO II
ALKUPISTE:	A001
LOPPUPISTE:	G334

A-G P31.8x4.5  
16Mo3

B ECONOMIZER II

POLANIEC Green Unit, CFB 158.3/135.1kg/s, 127.5/19.5bar 535/535°C

	SALVAN RESTORADO DATE: 13.8.11	MAQUINER DATE: 13.8.11	SPACE DATE:	PINTA NOVO DATE:	MANUTEN DATE:	SING. NO. DATE:
	TARK. ENDEKED DATE:	DATE:	DATE:	DATE:	DATE:	DATE:
						6319114



<b>DATA LOGGER</b>	
ASIAKAS / LAITTO:	Polaniec, Poland
OSAN KOODI / MITTAUSAIKAKA-FILE:	ECO III
ALKUPISTE:	A001
LOPPUPISTE:	G097

A-G P31.8x4.5  
16Mo3

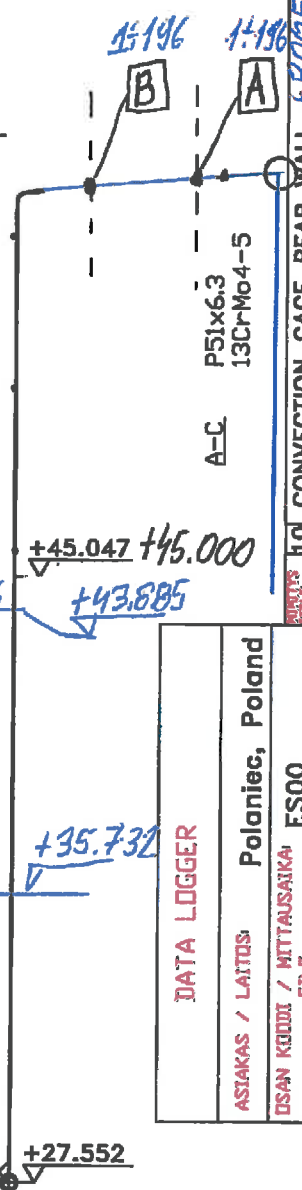
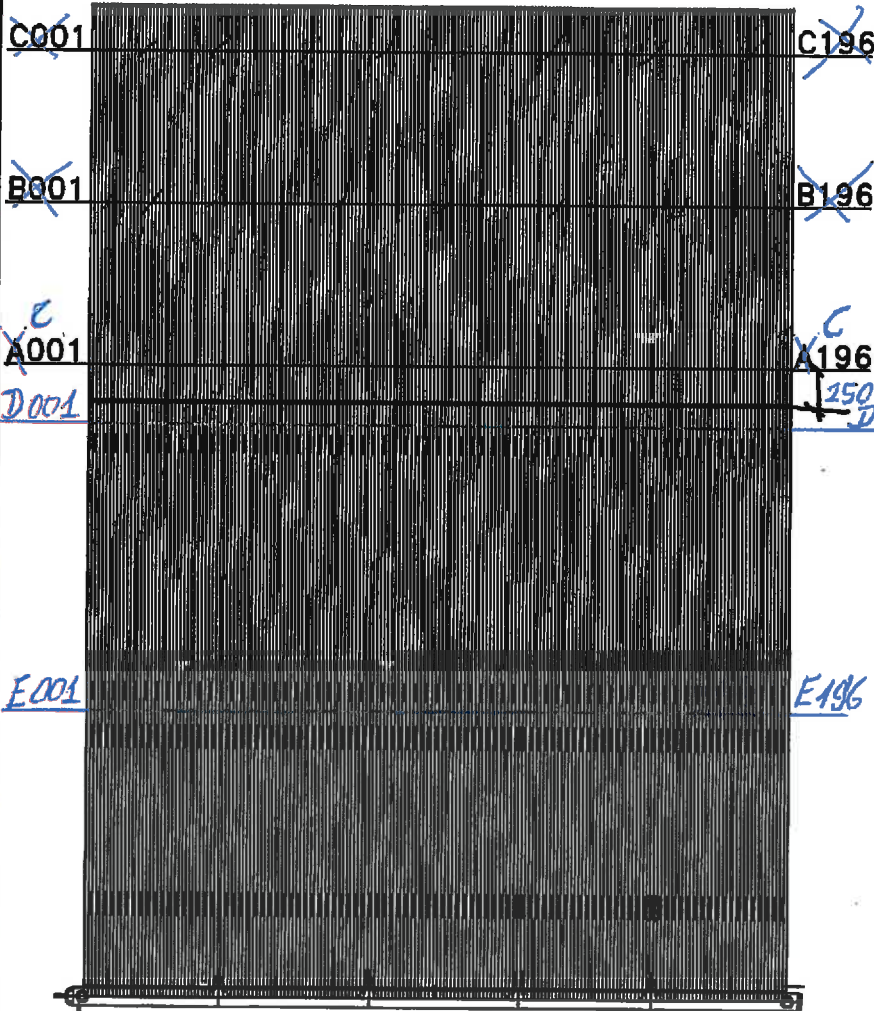
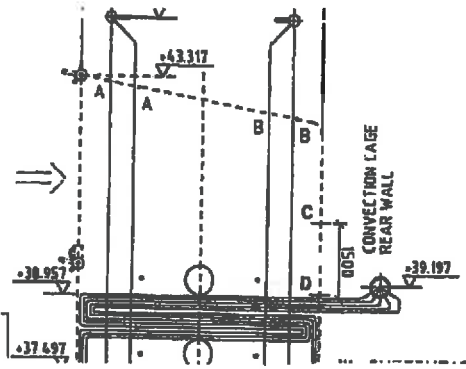
7 ECONOMIZER III

POLANIEC Green Unit, CFB 158.3/135.1kg/s, 127.5/19.5bar, 535/535°C

SEARCHED	INDEXED	DATE	SCALE	DATE	SCALE	DATE	SCALE
INDEXED	INDEXED	INDEXED	INDEXED	INDEXED	INDEXED	INDEXED	INDEXED
DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE
DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE

FOSTER WHEELER

6319104



**FOSTER WHEELER**

**10 CONVECTION CAGE REAR WALL + ROOF**

POLANIEC Green Unit, CFB 158.3/135.1kg/s, 127.5/19.5bar, 535/535°C

DATE	DATE	DATE
19.04.11		
SCALE	SCALE	SCALE
GROUP NO.	GROUP NO.	GROUP NO.
FILE NO.	FILE NO.	FILE NO.
DATE	DATE	DATE

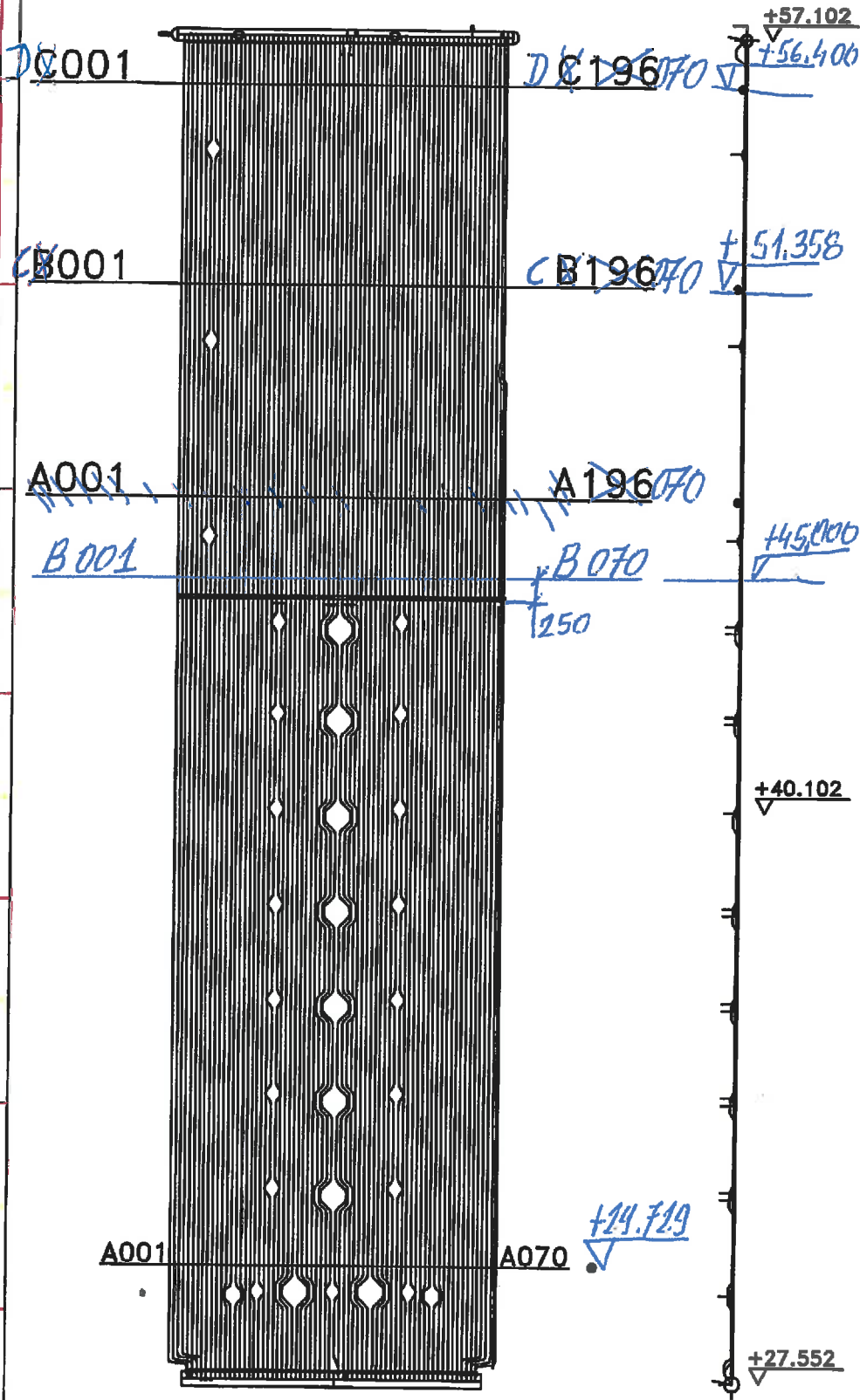
6319134

**DATA LOGGER**

ASTAKAS / LAITOS	Polaniec, Poland
ESAN KODI / MITTAUSAIKA FILE	ES00
ALKUPISTE / GRID START	A001
LOPPIPISTE / GRID END	C196

LOOKING INSIDE





LOOKING INSIDE  
LEFT SIDE

DATA LOGGER	
ASIAKAS / LAITIS:	Polaniec, Poland
ISAN KODI / MITTAUSAIKA:	ES00
ALKUPISTE:	A001
GRID START:	F070
LOPPUPISTE:	GRID END:

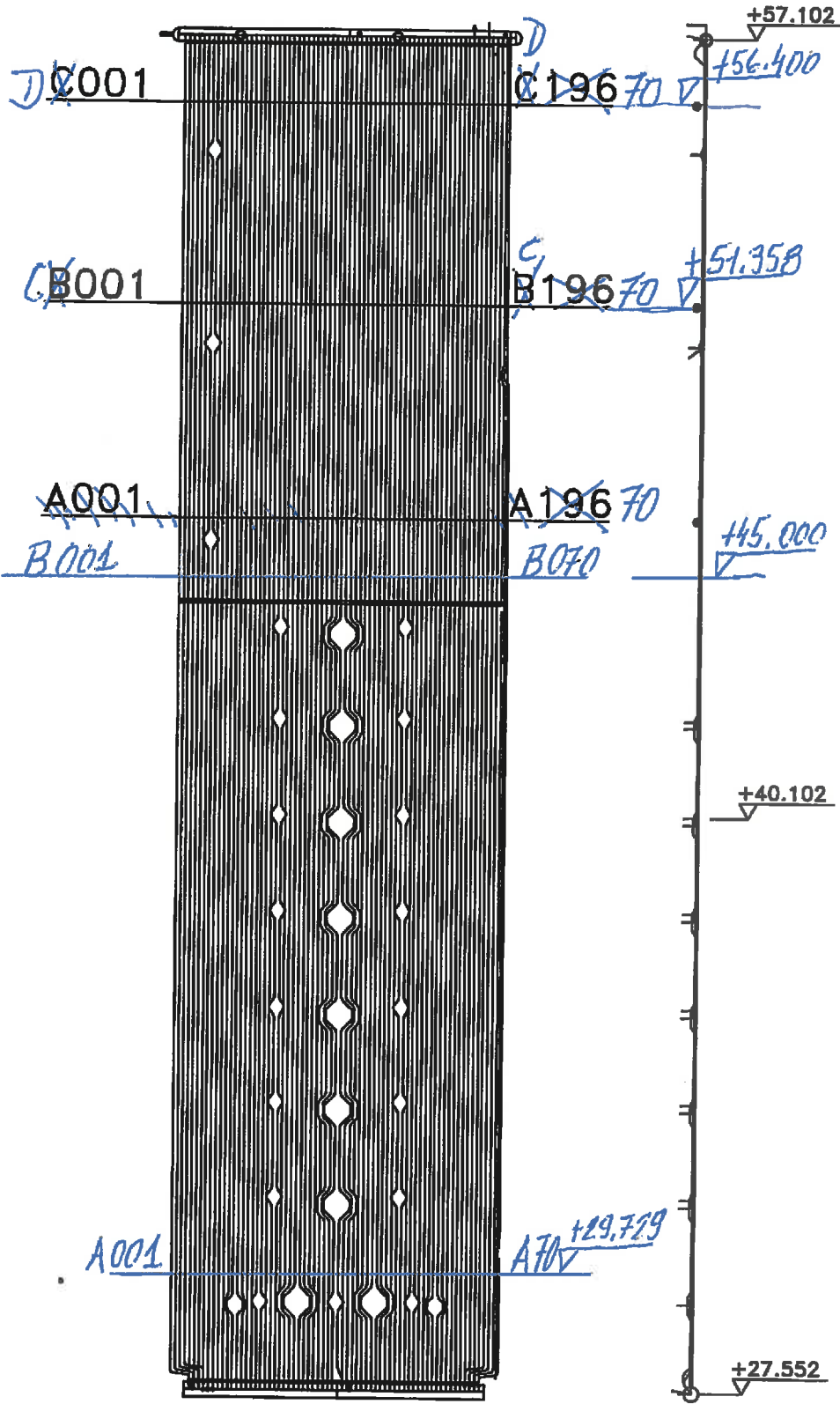
A-C P51x6.3  
13CrMo4-5

**10 CONVECTION CAGE RIGHT SIDE WALL**  
**POLANIEC Green Unit, CFB 158.3/135.1kg/s, 127.5/19.5bar, 535/535°C**

SIIPAIN DESIGNER:	MAI/SEB	DATE 13.6.11	SCALE	GROUP INCL	DATE
RYHMÄN PÄÄLLYKSI:	RYHMÄN PÄÄLLYKSI:	DATE	DATE	DATE	DATE

**FOSTER WHEELER**

6319154



DATA LOGGER	
ASIAKAS / LAITTO:	Polaniec, Poland
OSAN KODI / MITTAUSAIKAI FILE:	ES00
ALKUPISTE / GRID START:	A001
LOPPUPISTE / GRID END:	C070

A-C P51x6.3  
13CrMo4-5

**FOSTER WHEELER**

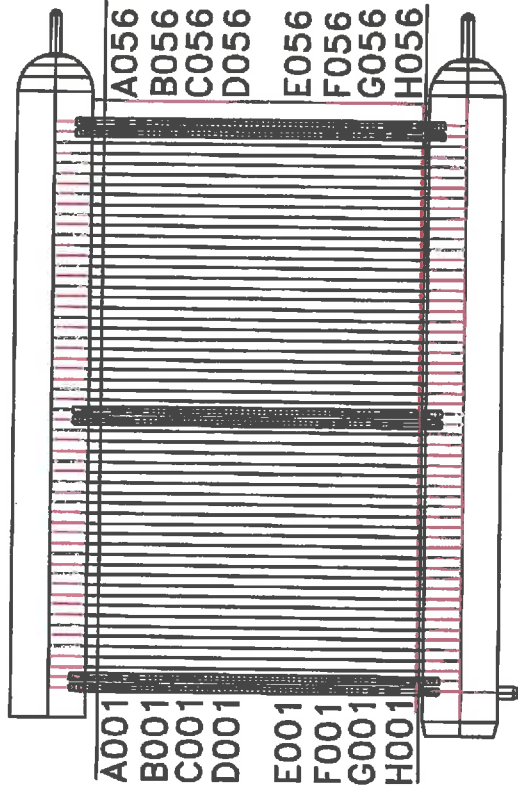
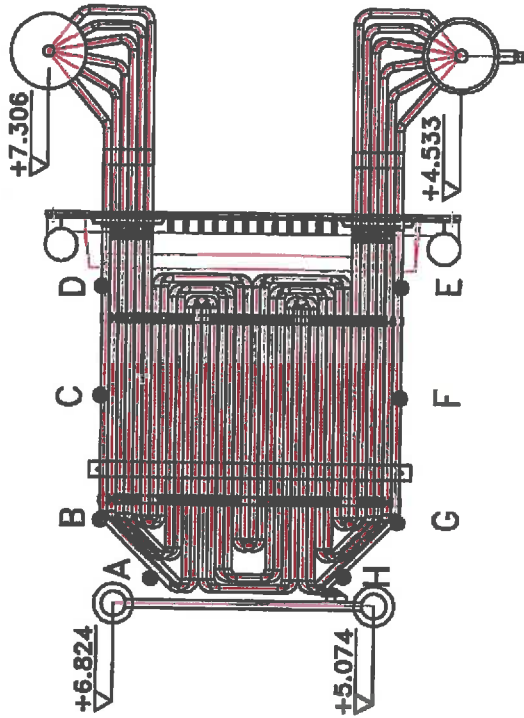
**10 CONVECTION CAGE LEFT SIDE WALL**

POLANIEC Green Unit, CFB 158.3/135.1kg/s, 127.5/19.5bar, 535/535°C

DATE	12.06.11	SCALE	
DATE		DATE	
DATE		DATE	

SUBMITTAL DESIGNED BY: MAB/YSR  
 CHECKED BY: [ ]  
 APPROVED BY: [ ]

6319144



**DATA LOGGER**

ASIAKAS / LAITOS: Polaniec, Poland

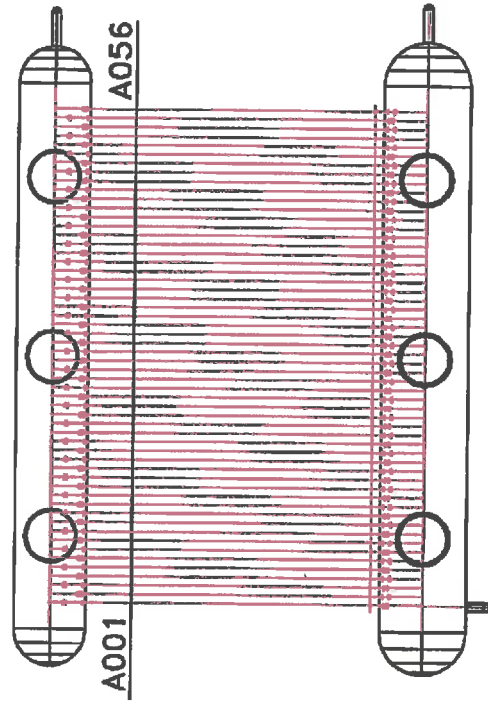
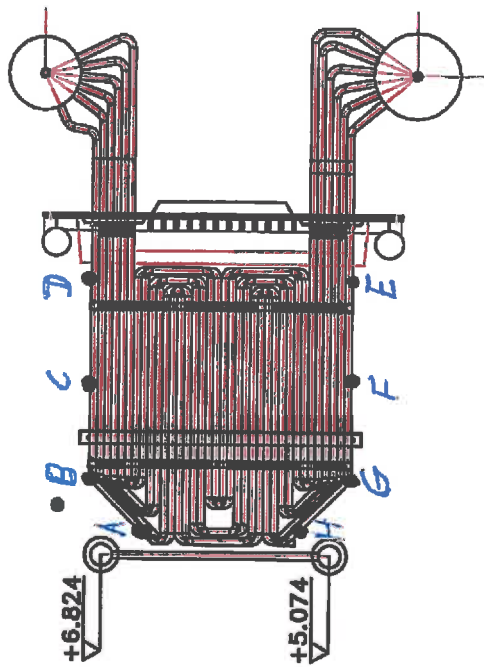
OSAN KOODI / METTÄSAIKAKA: ES00  
FILE:

ALKUPISTE: A001  
GRID START:

LOPPUPISTE: H056  
GRID END:

A-H P51x8  
X8CrNi19-11

<p>13 INTREX SUPERHEATER III</p> <p>POLANIEC Green Unit, CFB 158.3/135.1kg/s, 127.5/19.5bar, 535/535°C</p>		<p>SCALE</p> <p>DATE 15.6.11</p>	<p>SCALE</p> <p>DATE</p>	<p>SCALE</p> <p>DATE</p>
<p>SWAN ESTIMATED</p> <p>MM/YY</p>	<p>MM/YY</p> <p>SER</p>	<p>MM/YY</p> <p>DATE</p>	<p>MM/YY</p> <p>DATE</p>	<p>MM/YY</p> <p>DATE</p>
<p><b>FOSTER WHEELER</b></p>		<p>MM/YY</p> <p>DATE</p>	<p>MM/YY</p> <p>DATE</p>	<p>6319184</p>

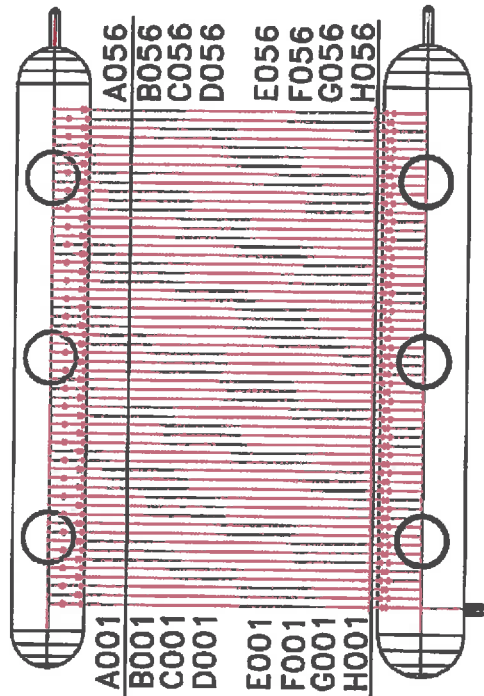
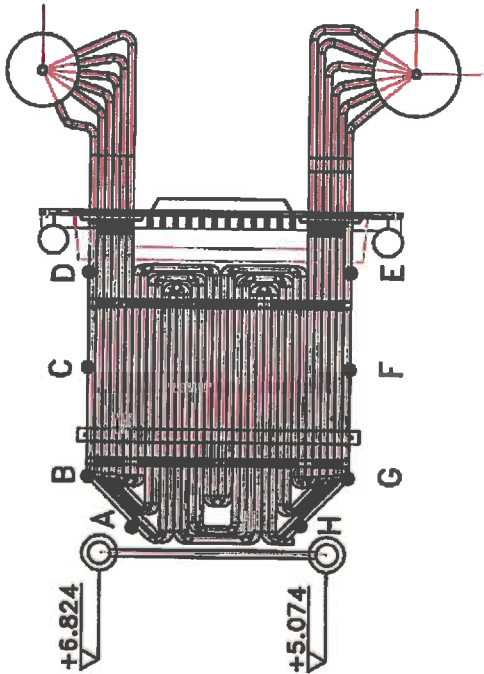


**DATA LOGGER**

ASIAKAS / LAITES:	Polaniec, Poland
OSAN KOODI / MITTAUSAIKA / FILE:	ES00
ALKUPISTE / GRID START:	A001
LOPPIPISTE / GRID END:	F056

A-C PS1x7.1  
X8CrNi19-11

<b>11 INTREX REHEATER II A</b> POLANIEC Green Unit, CFB 158.3/135.1kg/s, 127.5/19.5bar, 535/535°C	
SERIAL NO. 13.6.11	DATE 13.6.11
MANUFACTURED BY FOSTER WHEELER	DATE 13.6.11
ORDER NO. 6319164	DATE 13.6.11



DATA LOGGER

ASIAKAS / LAITOS:	Polaniec, Poland
OSAN KODDI / MITTAUSAIKKA / FILE:	ES00
ALKUPISTE:	A001
GRID START:	A001
LOPPUPISTE:	H56
GRID END:	H56

A-H P51x7.1  
X8CrNi19-11

**12 INTREX REHEATER II B**  
**POLANIEC Green Unit, CFB 158.3/135.1kg/s, 127.5/19.5bar, 535/535°C**

<b>FOSTER WHEELER</b>	PLANNO:	MAA/SER:	EXY:	DATE:	13.4.17	SCALE:	PIIR. NRO:	MAKS. NRO:	TOIK. NRO:
	ESKAS:	LABE:	LABE:	LABE:					
	LABE:	LABE:	LABE:	LABE:					

6319174

№	Symbol	Opis	Wielkość	Wskazanie
1	100	Węzeł	100	100
2	200	Węzeł	200	200
3	300	Węzeł	300	300
4	400	Węzeł	400	400
5	500	Węzeł	500	500
6	600	Węzeł	600	600
7	700	Węzeł	700	700
8	800	Węzeł	800	800
9	900	Węzeł	900	900
10	1000	Węzeł	1000	1000



PLAN OGÓLNY

01r. 116 Zesp. 126 81

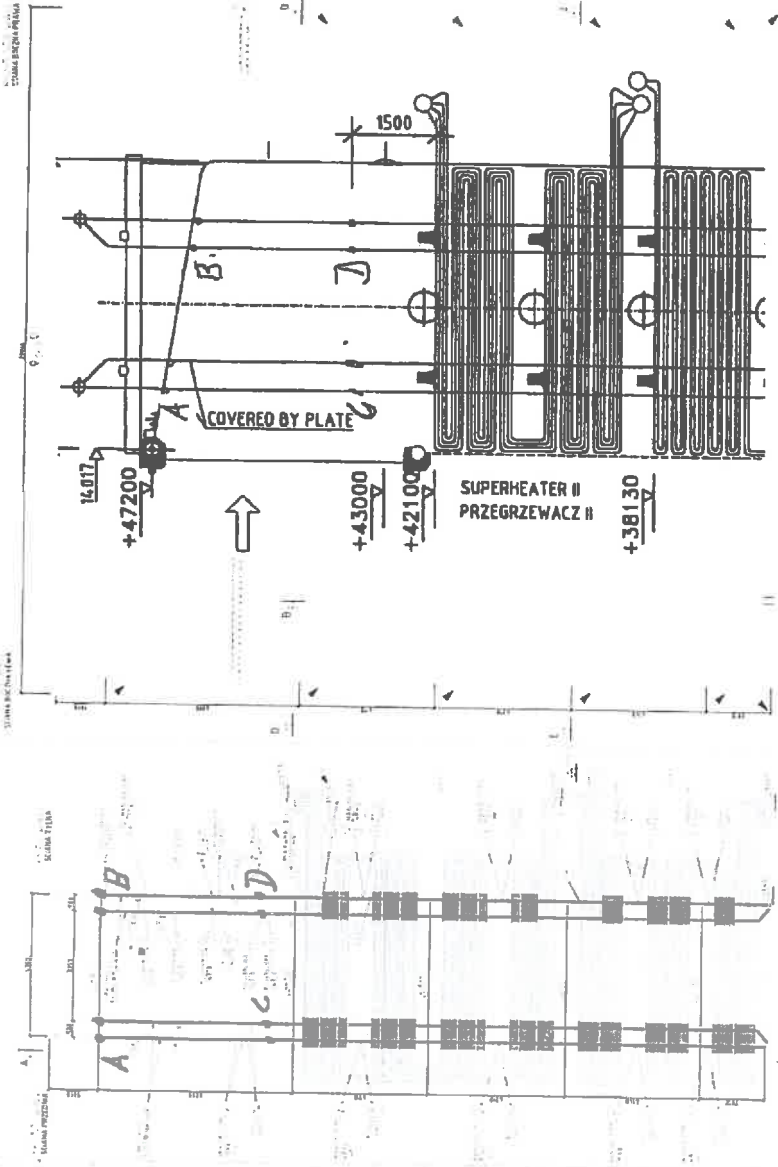
WYKONANO W 1952 R. W KRAKOWIE

WYKONAWCA: BIURO PROJEKTOWE

PROJEKTOWAŁ: [Name]

OPRACOWAŁ: [Name]

WZROKOWAŁ: [Name]



*Horizontal Tubes*

