

EPAQ Certification Document

Manufacturer and production plant: ArcelorMittal Construction Belgium
Lammerdries 8
2440 Geel
Belgium

Profile Types: Trapezoidal profiles and liner trays
made of steel

Date: 2010-09-01

Certification Number: 02-01-02-11-0010
02-01-02-12-0011

This EPAQ Certification Document consists of 9 pages.

This EPAQ Certification Document is only valid in combination with the accompanying EPAQ Quality Certificate.



1 GENERAL

This EPAQ certification document specifies all properties of the liner trays and trapezoidal profiles (see Table 1 and Table 2) which must be declared according to EN 14782. Additionally to the requirements of EN 14782 for mechanical properties the attestation of conformity system is comparable to AoC system 1+. All reports of the initial inspections and continuous surveillance have to be sent to EPAQ.

2 PROFIL TYPES AND DEFINITION OF USED MATERIALS

2.1 Profiles

The liner trays in Table 1 and the trapezoidal profiles in Table 2 are made of steel sheeting with a corrosion protection system. The geometry of the profiles is displayed in pages 4 to 8. The dimensions of the profiles shall be within the tolerances given in EN 14782, EN 508-1 and the EPAQ Quality Regulations for Profiles. The profiles are intended to be used as self-supporting metal sheet for roofing, external cladding and internal lining according to Table 1 and Table 2.

2.2 Characteristics and Composition

2.2.1 Steel sheets

For the profiles steel S320GD or S350GD with metallic coating Z275, ZA255 or AZ150 according EN 10346:2004-09 has to be used. The thickness of the steel sheets has to be within the tolerances given in table 2 of EN 10143:2006, normal tolerances, and category 2 of EN 508-1:2008.

2.2.2 Corrosion protection system

The organic coating shall fulfil EN 10169. Suitable corrosion protection systems are given in Table 4.

3 RESISTANCE TO CONCENTRATED FORCES

The resistance of roofing products to concentrated forces is given in Table 3.

4 REACTION TO FIRE

The classification regarding the reaction to fire is given in Table 4.

5 EXTERNAL FIRE PERFORMANCE

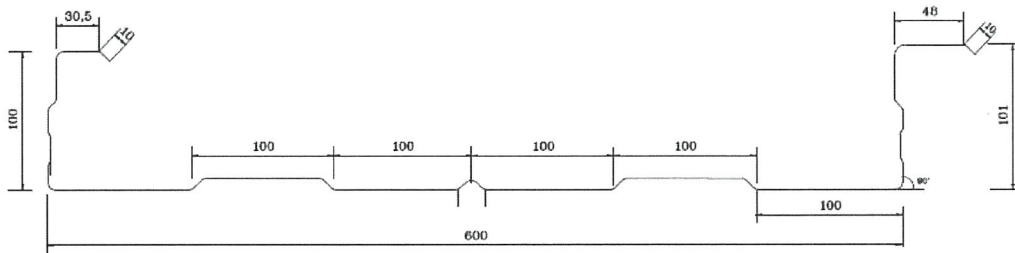
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Table 1: Profiles – liner trays

Profile	Thickness steel sheet [mm]	Application
100/600	$0.75 \leq t_N \leq 1.00$	Wall & roof
130/600	$0.75 \leq t_N \leq 1.00$	Wall & roof
160/600	$0.75 \leq t_N \leq 1.00$	Wall & roof

Table 2: Profiles – trapezoidal profiles

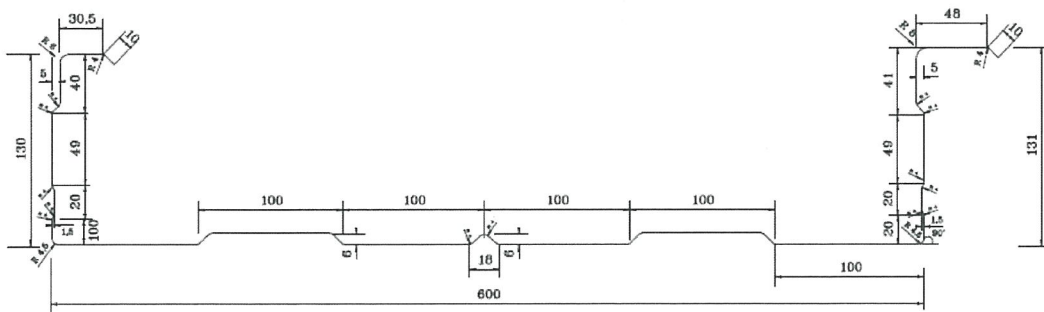
Profile	Thickness steel sheet [mm]	Application
35/207/1035	$0.63 \leq t_N \leq 1.00$	Wall
40/183/915	$0.63 \leq t_N \leq 1.00$	Wall
39/333/1000	$0.63 \leq t_N \leq 1.00$	Roof
106/250/750	$0.70 \leq t_N \leq 1.25$	Wall & roof
135/310/930	$0.70 \leq t_N \leq 1.25$	Wall & roof
153/280/840	$0.70 \leq t_N \leq 1.50$	Wall & roof
158/250/750	$0.70 \leq t_N \leq 1.50$	Wall & roof



B100/600

Revisie: 0

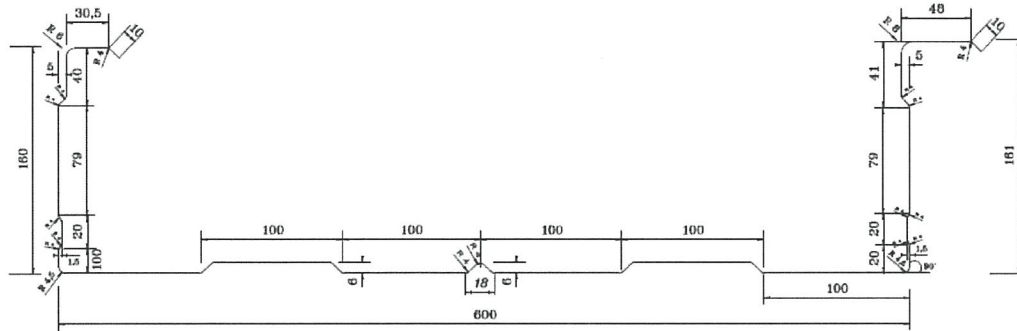
Docu.-naam: DOC-GEE-PRO-008



B130/600

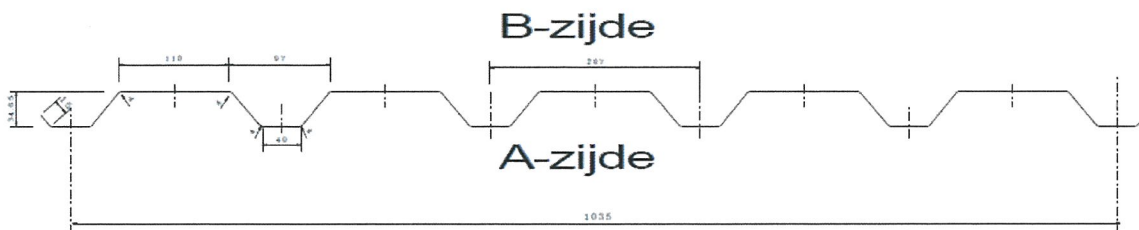
Revisie: 0

Docu.-naam: DOC-GEE-PRO-009



B160/600

Revisie: 0
Docu.-naam: DOC-GEE-PRO-010



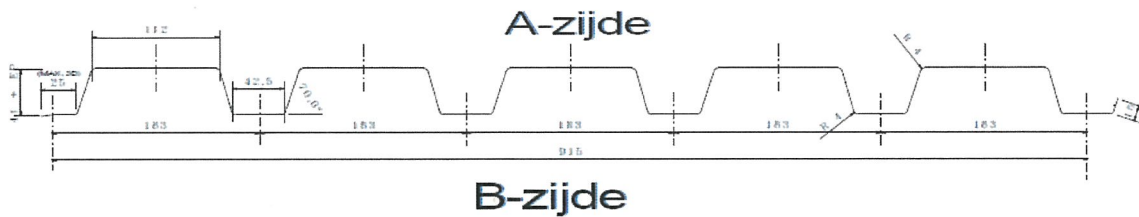
PROFIEL 35 / 207 / 1035

("DAK" - Coil : 1240 of 1250)
(Min. retour van '15' te voorzien bij gebruik van Coil : 1220)

Revisie: 0
Docu.-naam: DOC-GEE-PRO-021



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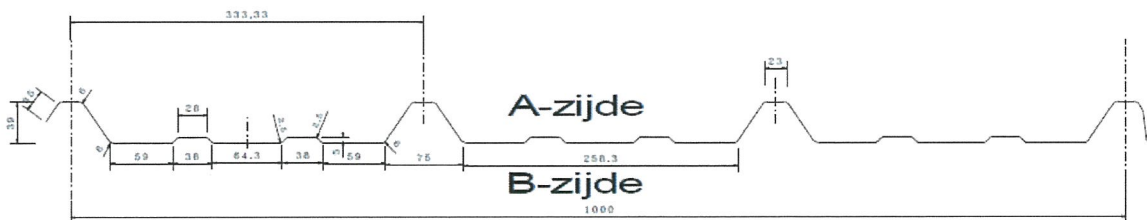


PROFIEL 40 / 183 / 915
 ("WAND" - Coil : 1220)

Revisie: 0
 Docu.-naam: DOC-GEE-PRO-018



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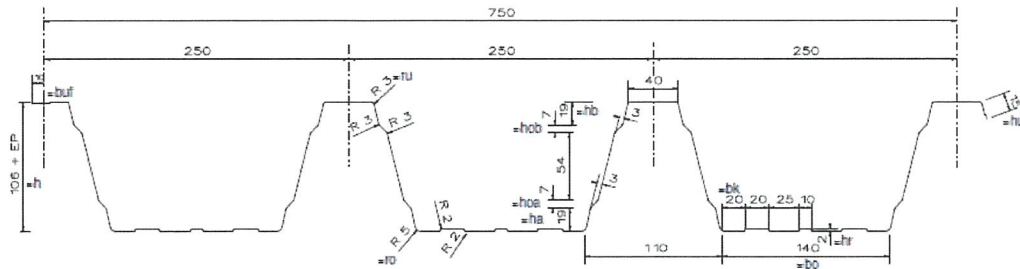


PROFIEL 39 / 333 / 1000
 ("DAK" - Coil : 1220)

Revisie: 0
 Docu.-naam: DOC-GEE-PRO-017



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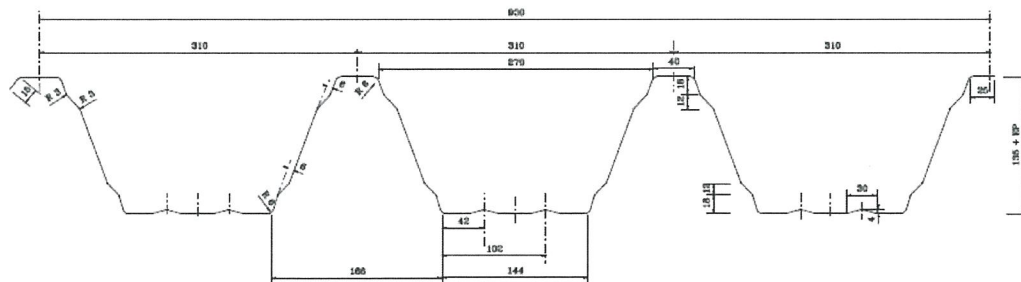


PROFIEL 106/250/750

Revisie: 0
Docu.-naam: DOC-GEE-PRO-001



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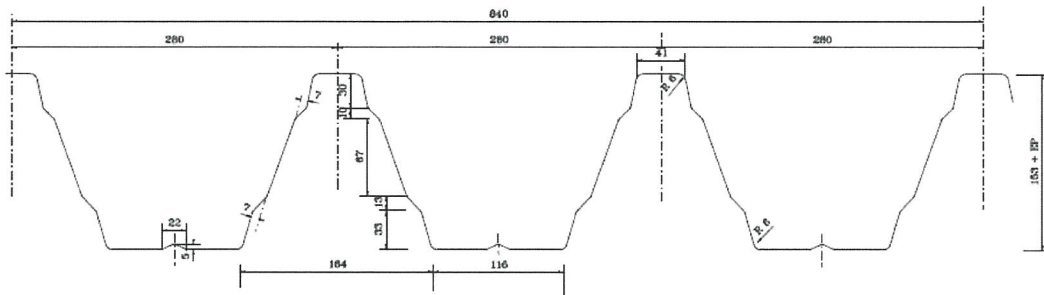
PROFIEL 135/310/930

Revisie: 0
Docu.-naam: DOC-GEE-PRO-011

European Quality Assurance Association for Panels and Profiles



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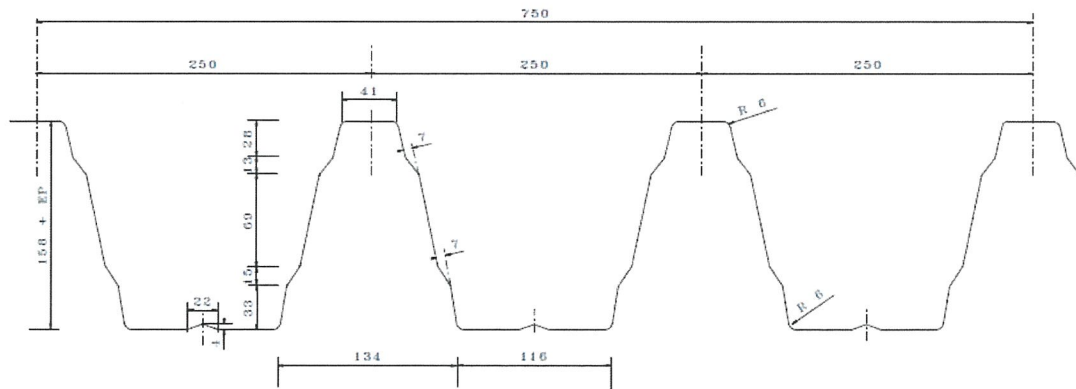


PROFIEL 153/280/840

Revisie: 0
Docu.-naam: DOC-GEE-PRO-012



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PROFIEL 158/250/750

Revisie: 0
Docu.-naam: DOC-GEE-PRO-013

Table 3: Resistance to concentrated forces – spans [m]

Profile		sheet thickness [mm]							
		0.70	0.75	0.80	0.88	1.00	1.13	1.25	1.50
106/250/750 ¹⁾	Pos.	0.40	5.39	6.07	7.15	8.77	9.96	11.0	13.3
	Neg.	0.40	4.85	5.59	6.77	8.55	9.71	10.25	13.0
All other types of Profiles		0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40

¹⁾ The values are valid for a steel S350GD.

Table 4: Reaction to fire classification

External face	Internal face	Reaction to fire class
Hairplus 25/ Poly UV 25	Primer	A1
Hairplus 35/ Poly UV 35	Primer	A1
PVDF 25	Primer	A2-s1,d0
Plastisol 100	Primer	C-s3,d0
Plastisol 200	Primer	C-s3,d0
Interieur 12	Primer	A1
Polyester SP 25µm	Primer	A1

For the corrosion protection systems a restriction regarding extended application exists (see EN 14782, C.3.4.4).



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Independent Expert of EPAQ