ROCKWOOL B.V. / Rockpanel Konstruktieweg 2 NL-6045 JD Roermond www.rockpanel.com



DECLARATION OF PERFORMANCE

No. 0764-CPR-0388 - UK - vs01

1. Unique identification code of the product type:

Rockpanel A2, 8 mm finish Colours, Rockpanel A2, 8 mm finish Nordic and Rockpanel A2, 8 mm finish ProtectPlus.

2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11 (4):

Backside print on the board.

3. Intended use / es

Internal and external wall and ceiling finishes.

4. Manufacturer

ROCKWOOL B.V. Industrieweg 15

NL-6045 JG Roermond, Netherlands

Tel.: +31 475 353 353

5. System or systems of AVCP (assessment and verification of constancy of performance of the construction product) as set out in Annex V (amended by: OJ L 157, 27.5.2014, p. 76–79):

System 1 for reaction to fire and system 2+ for other characteristics

6. European Assessment Document:

EAD 090001-00-0404 for Prefabricated compressed mineral wool boards with organic and inorganic finish and with specified fastening system.

European Technical Assessment: ETA-24/0910 of 2025-01-28

Technical Assessment Body ETA-Danmark A/S

Göteburg Plads 1, DK-2150 Nordhavn, Denmark

Tel.: +45 72 24 59 00 Fax.:+45 72 24 59 04 Internet: <u>www.etadanmark.dk</u>

Notified Body: Materialprüfanstalt für das Bauwesen

Nienburger Strasse 3, D-30167 Hannover, Germany

Notified Body 0764 Tel.: +49 511 762 3104 Fax.:+49 511 762 4001 Internet: www.mpa-bau.de

and issued: Certificate of Constancy of performance

No. 0764 - CPR - 0388

7. Characteristics of the product

The Rockpanel A2, 8 mm Colours panels are surface treated on one side with water-borne primerand water-borne coloured paint layers, in a range of colours.

The Rockpanel A2, 8 mm Nordic panels are surface treated on one side with water-borne coloured coating layers, in a range of colours.

The Rockpanel A2, 8 mm ProtectPlus panels are surface treated on one side with water-borne primer and a water-borne coloured paint, which has been provided with an extra anti-graffiti clear coat on top of the colour paint. The finishes "Woods", "Stones" and "Chameleon" contain an (additional) design layer on top of the coloured paint. In the event of "Textured" the front side of the board has a slightly textured surface with depths between the product tolerances of +/- 0.5 mm.

The physical properties of 'Rockpanel A2, 8 mm are indicated below:

Thickness 8 mm length, max 3050 mm width, max 1250 mm density nominal 1170 kg/m³

bending strength length and width f₀₅ ≥ 27 N/mm²

Modulus of Elasticity 4015 N/mm² Thermal conductivity 0.47 W/(m.K)

Clause 8 contains the performances of Rockpanel A2, 8 mm.

8. Declared performance

Table 1 – Euroclass classification of different constructions with Rockpanel A2, 8 mm boards

Essential char	acteristics		Basic requirements for construction works BR2 – Safety in case of fire			
Harmonised technical specification			ETA-24/0910 issued on 2025-01-28 EN 13501-1			
Performance		1				
Fixing method Finish Set-up		Set-up	Timber subframe	Metal subframe		
	Colours	Non-ventilated. Cavity filled with mineral wool		A2-s1,d0 Closed horizontal joint		
Machaniaally	Colours, Nordic, ProtectPlus	Ventilated with EF battens [a] [c]	PDM gasket on the	A2-s2,d0 Open 8 mm joint		
Mechanically fixed	Nordic	Ventilated with EPDM gasket on the battens and windboard in front of the insulation [a] [b]		A2-s1,d0 Open 8 mm joint		
	Colours, ProtectPlus	Ventilated, 28 mm 100 mm)	ı with vertical planks (≥		A2-s1,d0 Open 10 mm joint	

[[]a]: Width of the gasket 15 mm at both sides wider than the batten

Field of application

The following field of application applies.

Euroclass classification

The classification mentioned in table 1 is valid for the following end use conditions: Mounting

- Mechanically fixed as described in table 1, attached to a timber or metal subframe.
- The panels are backed with minimum 50 mm mineral wool insulation with density 30-70 kg/m³ according to EN 13162 with a cavity between the panels and the insulation. See section Insulation below.

Substrates:

Concrete walls, masonry walls and timber framing

[[]b]: The windboard is specified minimum A2-s1,d0 (according EN 13501-1) and K10 (according EN 13501-2) and placed between the subframe and the insulation.

[[]c]: A breathable membrane (minimum class B-s1,d0 according EN 13501-1) can be added between the subframe and the insulation.

Insulation:

- Ventilated constructions: The subframe is backed with minimum 50 mm mineral wool insulation with density 30-70 kg/m³ according to EN 13162 with a cavity of minimum 28 mm for metal subframes and minimal 25 mm for timber subframes between the panels and the insulation.
- Non-ventilated constructions: The panels are backed with minimum 40 mm mineral wool insulation with 30-70 kg/m³ between the battens and minimum 50 mm with density 30-70 kg/m³ behind the battens without an air gap.
- Results are also valid for a greater thickness of mineral wool insulation with the same density and the same or better reaction to fire classification.
- The results also apply to panels without insulation, if the substrate chosen according to EN 13238 is made of a panel with Euroclass A1 or A2 (e.g. fibre-cement panels).

Subframe:

- Vertical softwood battens without fire retardant treatment, thickness minimum 25 mm.
- Test results are also valid for the same type of panel with an aluminium or steel frame.
- Test results are also valid for the same type of panel with vertical LVL battens, without fire retardant treatment, thickness minimum 27 mm.

Fixings:

- The results are also valid when using smaller mounting distances.
- Test results are also valid for the same type of panel fixed by rivets made of the same material of screws and vice versa.

Cavity:

- Unfilled or filled with insulation of stone wool with a nominal density 30-70 kg/m³ according to EN 13162.
- The depth of the cavity is minimum 28 mm for a metal subframe, and minimum 25 mm for a timber subframe.
- Test results are also valid for other higher thicknesses of air space between the back of the board and the insulation.

Joints:

- Horizontal joints can be open or closed with an aluminium profile. In the event of a non-ventilated construction an EPDM foam gasket (self-adhering backside) is obliged.
- For metal subframes the vertical joints are without a gasket backing.
- For timber subframes the vertical battens are with an EPDM foam gasket (Celdex EPDM Soft EP-4530).
- The result from a test with an open horizontal joint is also valid for the same type of panel used in applications with horizontal joints closed by steel or aluminium profiles.

The classification is also valid for the following product parameters:

Thickness: Nominal 8 mm
Density: Nominal 1170 kg/m³

Table 2 - Performance - Water vapour permeability and water permeability

Essential characteristic	cs	BR3 – Hygiene, Health and environment		
Property	Declared value	s	Harmonised technical specification	
Water vapour permeability	A2, 8 mm Nord A2, 8 mm Prote The designer s	urs: $s_d < 1.7$ m at 23°C and 85% RH ic: $s_d < 1.65$ m at 23°C and 85% RH ectPlus $s_d < 3.2$ m at 23°C and 85% RH hall consider the relevant needs for ventilation, heating and nimise condensation in service.	ETA-24/0910 issued on 2025-01-28 EN ISO 12572 test condition B	
Water permeability	Incl. joints for n	on-ventilated applications: NPD	ETA-24/0910 issued on 2025-01-28	

Table 3 – Performance – Release of dangerous substances

Essential characteristics		BR3 – Hygiene, Health and environment		
Property	Product specifi	ication	Harmonised technical specification	
Dangerous substances	034, dated Apr Formaldehyde Formaldehyde The used fibre No biocides ar No flame retar	ot contain/release dangerous substances specified in TR ril 2013*), except concentration 0.0105 mg/m³. class E1. s are not potential carcinogenic e used in the Rockpanel boards dant is used in the boards sused in the boards.	ETA-24/0910 issued on 2025-01-28	

^{&#}x27;) In addition to the specific clauses relating to dangerous substances contained in this European technical Assessment, there may be other requirements applicable to the products falling within its scope (e.g. transposed European legislation and national laws, regulations and administrative provisions). In order to meet the provisions of the Construction Products Regulation, these requirements need also to be complied with, when and where they apply.

Table 4a – Performance – Design value of the axial load for mechanical fixing 8 mm Rockpanel A2 boards Subframe: solid wood / metal

Essential char	acteristics	BR4 – Safety in use			·		
Harmonised technical specification ETA		ETA-24/0910 issued	ETA-24/0910 issued on 2025-01-28				
narmonisea te	criffical specification	EN 14592:2008+A1:2	2012 (E)				
For service cla	ss 2 (see 'Note') and loa	d-duration class 'Instai	ntaneous' [c].	For hole dia	meters fixings see table 5		
Dranarty	8 mm boards		Span in	mm [b]	$X_d = X_k / \gamma_M \text{ in } N$	Table in	
Property	o min boards		a fixing	b board	Middle / Edge/ Corner	ETA	
	Screw fixing [a] [e]		600	600	C18 [d]: 433 / 280 / 148	10-5 [c]	
	With the use of gasket	S	000	600	C24 [d]: 433 / 280 / 148	10-5 [0]	
Design value	High Performance na	il fixing (35 mm) [e]	400	600	C18 [d]: 341 / 271 / 161	10-4 [c]	
of the axial	With the use of gaskets		400	000	C24 [d]: 383 / 271 / 161	10-4 [0]	
load	Rivet fixing in aluminium	ım [e]	600	600	481 / 321 / 193	10	
$X_d = X_k / \gamma_M$	Screw fixing in alumin	um [e]	600	600	493 / 297 / 152	10-1	
	Rivet fixing in steel [e]		600	600	463 / 340 / 221	10-2	
	Screw fixing in steel [e]	600	600	416 / 333 / 225	10-3	
	lpha is the angle between the so	crew axis and the grain		lass BS EN 33			
direction			[e] for specific	cations fixings	see table 8a to 8e		
[b] see Table 6a		'Values of k 'PS EN	Note (accord	ing to BS EN 1	005 1 1:2004+41:2014 82 3 1	2 (2) D):	
[c] k _{mod} = 1.10 in accordance with Table 3.1 – 'Values of k _{mod} 'BS EN 1995-1-1:2004+A2:2014; For 'service class' 2 [NA to BS EN 1995-1-1:2004+A2:2014 Table NA.2 "External uses where member is		Note (according to BS EN 1995-1-1:2004+A1:2014 §2.3.1.3 (3)P): Service class 2 is characterised by a moisture content in the materials corresponding to a temperature of 20°C and the relative humidity of					
						protected from d	lirect wetting"] and 'load-dura
'Instantaneous' [Table NA.1 NA to BS EN 19	95-1-1:2004+A2:2014]			moisture content in most softw	oods will	
			not exceed 2	0%			

Table 4b - Performance - Design value of the axial load for mechanical fixing 8 mm Rockpanel A2 boards Subframe: solid wood / metal

Essential char	Essential characteristics BR4 – Safety in use					
Harmonised technical specification		ETA-24/0910 issued on 2025-01-28				
	•	EN 14592:2008+A1:2	- (/			
For service cla	iss 3 (see 'Note') and load	d-duration class 'Instar			meters fixings see table 5	
Property	8 mm boards		Span in	ı mm [b]	$X_d = X_k / \gamma_M \text{ in } N$	Table in
Froperty	8 IIIII boards		a fixing	b board	Middle / Edge/ Corner	ETA
	Screw fixing [a] [e]		600	600	C18 [d]: 433 / 280 / 148	10 E [-1
	With the use of gaskets	3	600	600	C24 [d]: 433 / 280 / 148	10-5 [c]
Design value	High Performance nail fixing (35 mm) [e]		400	600	C18 [d]: 279 / 271 / 161	10-4 [c]
of the axial With the use of gasket		3	400	600	C24 [d]: 333 / 271 / 161	
load	Rivet fixing in aluminiu	m [e]	600	600	481 / 321 / 193	10
$X_d = X_k / \gamma_M$	Screw fixing in alumini	um [e]	600	600	493 / 297 / 152	10-1
	Rivet fixing in steel [e]		600	600	463 / 340 / 221	10-2
	Screw fixing in steel [e]		600	600	416 / 333 / 225	10-3
[a] with $\alpha \ge 30^\circ$:	lpha is the angle between the so	rew axis and the grain	[d] Strength class BS EN 338			
direction			[e] for specifications fixings see table 8a to 8e			
[b] see Table 6a						
[c] $k_{mod} = 0.90$ in accordance with Table 3.1 – 'Values of k_{mod} 'BS EN		Note (according to BS EN 1995-1-1:2004+A2:2014 §2.3.1.3 (3)P):				
1995-1-1:2004+A2:2014; For 'service class' 3 [NA to BS EN 1995-1-		Service class 3 is characterised by climatic conditions leading to				
1:2004+A2:2014 Table NA.2 "External uses fully exposed"] and		higher moisture contents than in service class 2 (compare 'Note' in				
'load-duration cla 1-1:2004+A2:20	ass 'Instantaneous' [Table Ni 141	A.1 NA to BS EN 1995-	Table 4a).			

Table 4c - Performance - Design value of the axial load for mechanical fixing 8 mm Rockpanel A2 boards Subframe: solid wood / metal

Essential chara	acteristics	BR4 – Safety in use					
Harmonised to	chnical specification	ETA-24/0910 issued	ETA-24/0910 issued on 2025-01-28				
riaiiiioiiiseu le	chinical specification	EN 14592:2008+A1:2	2012 (E)				
For service cla	ss 2 (see 'Note') and load	d-duration class 'Perma	anent' [c]. Foi	hole diamet	ers fixings see table 5		
Duna mandri	O mana ha anda		Span in	mm [b]	$X_d = X_k / \gamma_M \text{ in } N$	Table in	
Property	8 mm boards		a fixing	b board	Middle / Edge/ Corner	ETA	
	Screw fixing [a] [e]		600	600	C18 [d]: 396 / 280 / 148	10-5 [c]	
	With the use of gaskets	3	000	000	C24 [d]: 425 / 280 / 148	10-5 [0]	
Design value	High Performance na	il fixing (35 mm) [e]	400	600	C18 [d]: 186 / 186 / 161	10 4 [-]	
of the axial	With the use of gaskets		400	600	C24 [d]: 222 / 222 / 161	10-4 [c]	
load	Rivet fixing in aluminium [e]		600	600	481 / 321 / 193	10	
$X_d = X_k / \gamma_M$	Screw fixing in aluminium [e]		600	600	493 / 297 / 152	10-1	
	Rivet fixing in steel [e]		600	600	463 / 340 / 221	10-2	
	Screw fixing in steel [e		600	600	416 / 333 / 225	10-3	
[a] with $\alpha \ge 30^\circ$: α	x is the angle between the so	rew axis and the grain	[d] Strength class BS EN 338				
direction			[e] for specifications fixings see table 8a to 8e				
[b] see Table 6a		0// 6/ (00 5)	Note (seesand	: t- DO EN 4	005 4 4,0004, 40,0044 50 2 4	2 (2) (2)	
	accordance with Table 3.1 -		Note (according to BS EN 1995-1-1:2004+A2:2014 §2.3.1.3 (3)P):				
1995-1-1:2004+A2:2014; For 'service class' 2 [NA to BS EN 1995-1- 1:2004+A2:2014 Table NA.2 "External uses where member is		Service class 2 is characterised by a moisture content in the materials corresponding to a temperature of 20°C and the relative humidity of					
	irect wetting"] and 'load-dura		the surrounding air only exceeding 85% for a few weeks per year. In				
	to BS EN 1995-1-1:2004+A2		service class 2 the average moisture content in most softwoods will				
			not exceed 2				

Table 5 – Performance mechanical fixings – Hole diameters for A2 boards

Essential characteristics	BR4 – Safety in use					
Harmonised technical specification	ETA-24/0910 issued on 2025-01-28					
Fixing type [a]	Fixed hole	Moving hole	Slotted hole	Board dimension considered		
Screw for timber	3.2	6.0	3.4 * 6.0	1200 * 3050		
High Performance Nail	2.5	3.8	2.8 * 4.0	1200 * 2420		
Rivet	5.1	8.0	5.1 * 8.0	1200 * 3050		
Screw for aluminium [b]	5.8	10.0	n.a.	1200 * 3050		
Screw for steel	4.3	8.0	4.3 * 8.0	1200 * 3050		

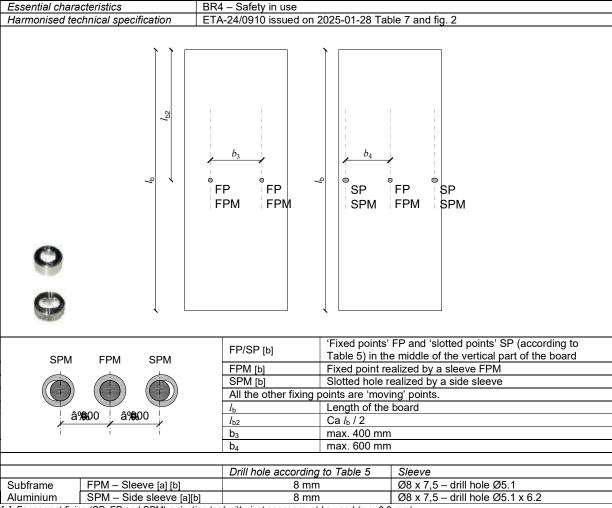
[[]a] For specifications fixings see Table 8a to 8e.
[b] The self-drilling screw for aluminium should always be fastened with 2 fixed points on the same horizontal level, max width 600 mm.

Table 6a – Performance fixings according to table 4 and 5 with the required edge distances, maximum distances and horizontal installation of boards.

Essential characteristics	BR4 – Safety in use					
Harmonised technical specification	ETA-24/0910 issued on 20	025-01-28 Table 7 a	nd fig. 2			
a ₁ , l _{mv}	SP SP	FP/SP [b]	(accord the vert All the o 'moving Length	ling to tab tical part of other fixing points' max 305	ole 5) in the of the boar	are
I _b / 2 b ₂ FP FPM	FP FPM	l _b b ₂ FPM [b]	Max. 60 b ₂ in the length <i>l</i>	e central b g a fixed	ard area of the	
a ₁ b b C E × E M		Location of the fa M: Middle of the b E: Edge of the bo C: Corner of the b Fixing type Rivet [a]	b _{max}	a _{max} 600	a ₁ ≥ 20	a ₂ ≥ 50
		Screw for metal Screw for timber HP Nail	600 600 600	600 600 400	≥ 20 ≥ 15 ≥ 15	≥ 50 ≥ 50 ≥ 50
		nr Ivail	000	400	≥ 15	≥ 50
		1				
Use of sleeves for Rivet fixing		cording to Table 5	Sleev		h.l. 05.4	
Subframe Aluminium FPM – Slee		lo E) in control are -	of the visi	/,5 – drill	hole Ø5.1	ord
FP = FIXED [a]: For correct fixing (SP_FP and SPM) a riveti	point' FP (according to Tab	ne oj in central area	oi the ver	ucai edge	e or the bo	aru.

[[]a]: For correct fixing (SP, FP and SPM) a riveting tool with rivet spacer must be used (e.g. 0.3 mm). [b]: Subframe aluminium

Table 6b – Performance fixings according to table 4 and 5 with the required edge distances, maximum distances and vertical installation of boards.



[[]a]: For correct fixing (SP, FP and SPM) a riveting tool with rivet spacer must be used (e.g. 0.3 mm).

Table 7 – Performance shear strength mechanical fixings

Essential characteristics		BR4 – Safety in use			
Harmonised technical specification		ETA-24/0910 issued on 2025-01-28			
		Fixing	Failure load	Deformation	
		Rivet for aluminium	2718 N	3.3 mm	
Characteristic shear	Screw for aluminium		2347 N	4.0 mm	
strength mechanical		Rivet for steel	2913 N	2.9 mm	
fixings		Screw for steel	2293 N	2.2 mm	
Average values		Torx Screw for timber	2254 N	7.1 mm	
		High performance nail	1423 N	7.5 mm	

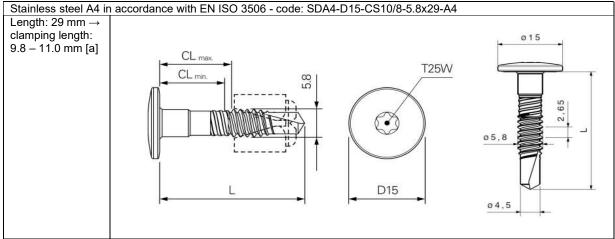
[[]b]: Subframe aluminium

Table 8a - Specifications mechanical fixings - Rivet aluminium or stainless steel [e]

		SFS	SFS	MBE	MBE
^		Aluminium [d]	Stainless steel A4	Aluminium [d]	Stainless steel [b]
1 2 40	Code	AP14-50180-S	[a] SSO-D15-50180	FN-Al5-5x18 K14	FN-A4-5x18 K15
	Body	Aluminium EN AW-	Stainless steel	Aluminium EN AW-	Stainless steel
11/10		5019 (AIMg5) in	material number	5019 (AIMg5) in	material number
d ₃		accordance with EN	1.4578 in	accordance with EN	1.4578 in
7		755-2	accordance with EN 10088	755-2	accordance with EN 10088
 	Mandrel	Stainless steel material number 1.4541 in accordance with EN 10088	Stainless steel material number 1.4541 in accordance with EN 10088	Stainless steel material number 1.4541 in accordance with EN 10088	Stainless steel material number 1.4541 in accordance with EN 10088
	Pull-out strength	F _{u,5} = 1882 N	F _{u,5} = 1339 N	F _{u,5} = 1882 N	F _{u,5} = 1339 N
	d ¹	5	5	5	5
-	d ²	14	15	14	15
	d ³	2.7	3.25	2.7	3.25
	L	18	18	18	18
→	k	1.5	1.5	1.5	1.5
'd¹'	Profile	Aluminium t ≥ 1.5 mm	Steel t ≥ 1.0 mm	Aluminium t ≥ 1.8 mm	Steel t ≥ 1.0 mm

[[]a]: The minimum thickness of the vertical steel profiles is 1.0 mm. The steel quality is S280GD +Z EN 10346 number 1.0250 (or equivalent for cold forming).

Table 8b – Specifications mechanical fixings – Self-drilling screw for aluminium



[a]: The minimum thickness of the aluminium profiles is 1.8 mm.

[[]b]: The minimum thickness of the vertical steel profiles is 1.5 mm. The steel quality is EN 10025-2:2004 S235JR number 1.0038. For minimum coating thickness see [c].

[[]c]: The minimum coating thickness (Z or ZA) is determined by the corrosion rate (amount of corrosion loss in thickness per year) which depends on the specific outdoor atmospheric environment. The International Zinc association can be consulted for more information.

The coating designation (classification which determines the coating mass) shall be agreed between the contractor and the building owner. [d]: The aluminium is minimum AW-6060 according EN 755-2. The $R_m/R_{p,0.2}$ value is \geq 170/140 for profile T6 and \geq 195/150 for profile T66. [e]: For correct fixing a riveting tool with rivet spacer must be used (e.g. 0.3 mm)

Table 8c – Specifications mechanical fixings – self-drilling screw for steel sub-constructions

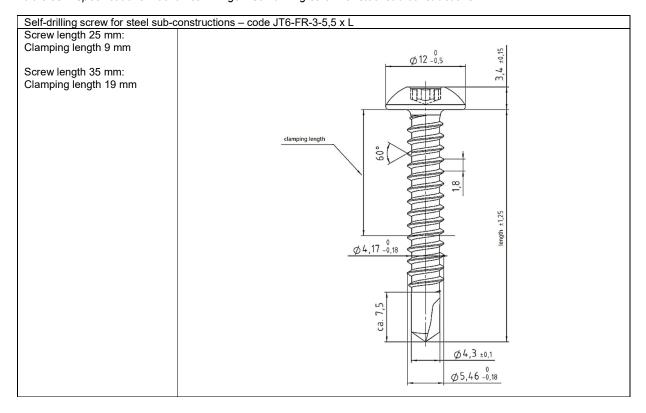


Table 8d – Specifications mechanical fixings – fasteners for timber sub-constructions.

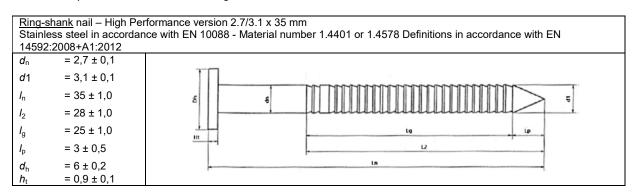


Table 8e - Specifications mechanical fixings - fasteners for timber sub-constructions.

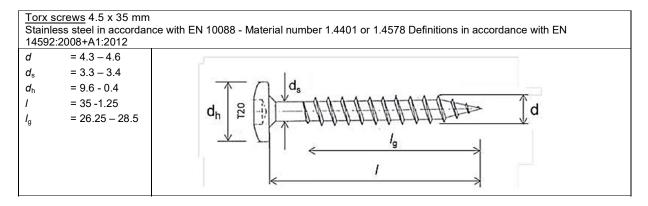


Table 9 - Performance Impact resistance

Essential characteristics	BR4 – Safety in use		
Harmonised technical specification	ETA-24/0910 issued on 2025-01-28		
		Sub-construction	Category
Danala without a barizantal joint	Donale with a deal books and district		
Panels without a horizontal joint		Metal	III
Danala with a barizantal joint roady and	Timber	III	
Panels with a horizontal joint ready acc	Metal	III	

Table 10 - Performance dimensional stability

Essential characteristics	BR4 – Safety in use			
Harmonised technical specification	ETA-24/0910 issued on 2025-01-28			
		Length	Width	
Cumulative dimensional change [a]		0.072 %	0.072 %	

[[]a]: As a consequence the minimum joint width shall be 3 mm, preferably 5 mm.

Table 11 - Resistance to hygro-thermal cycles and Xenon Arc exposure

Essential characteristics	Aspects of durability and serviceability		
Harmonised technical specification	ETA-24/0910 issued on 2025-01-28		
			Performance
Resistance to Hygrothermal cycles			Pass
Resistance to Xenon Arc exposure		Finish 'Colours'	ISO 105 A02: 3-4 or better
EOTA TR010 climate class S (Technical Report 010) 5000 hours artificial weathering		Finish 'Nordic'	No performance declared
		Finish 'ProtectPlus'	ISO 105 A02: 4 or better

9. The performance of the product identified above is in conformity with the set of declared performances. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

ROCKWOOL B.V. Signed for and on behalf of the manufacturer by: W.J.E. Dumoulin

Technical Director Operations

DE-NL

29-01-2025 At: Roermond. on:

The Netherlands

DOP in accordance with Commission Delegated Regulation (EU) No 574/2014 of 21 February 2014 amending Annex III to Regulation (EU) No 305/2011 of the European Parliament and of the Council on the model to be used for drawing up a declaration of performance on construction products, http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=celex%3A32014R0574, OJ L 159, 28.5.2014, p. 41–46