ROCKWOOL B.V. / Rockpanel
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NL-6045 JD Roermond
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# DECLARATION OF PERFORMANCE

**No. *0764-CPR-0237 – DK – English – vs02***

*1. Unique identification code of the product type:*

Rockpanel Durable 6 mm finish Uni

*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-08/0343 of 2025-02-10

*Technical Assessment Body*

ETA-Danmark A/S
Göteburg Plads 1, DK-2150 Nordhavn, Denmark
Tel.: +45 72 24 59 00
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*Notified Body:*

Materialprüfanstalt für das Bauwesen
Nienburger Strasse 3, D-30167 Hannover, Germany
Notified Body 0764
Tel.: +49 511 762 3104
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*and issued:*

**Certificate of Constancy of performance**
**No. 0764 – CPR – 0237 of 2025-02-10**

*7. Characteristics of the product*

The Rockpanel Durable 6 mm finish Uni panels are surface treated on one side with water-borne primer- and water-borne coloured paint layers, in a range of colours.

The physical properties of 'Rockpanel Durable 6 mm are indicated below:

| | |
|---|---|
| Thickness | 6 mm |
| length, max | 3050 mm |
| width, max | 1250 mm |
| density nominal | 1050 kg/m³ |
| bending strength | length and width $f_{05} \geq 27$ N/mm² |
| Modulus of Elasticity | m(E) ≥ 4015 N/mm² |
| Thermal conductivity | 0.37 W/(m.K) |

Clause 8 contains the performances of Rockpanel Durable 6 mm.

*8. Declared performance*

***Table 1** – Euroclass classification of different constructions with Rockpanel Durable 6 mm boards*

| *Essential characteristics* | | Basic requirements for construction works<br>BR2 – Safety in case of fire |
|---|---|---|
| *Harmonised technical specification* | | ETA-08/0343 issued on 2025-02-10<br>EN 13501-1 |
| *Performance* | | |
| Fixing method | Set-up | Timber subframe |
| Mechanically fixed | Non-ventilated.<br>Cavity filled with mineral wool | B-s1,d0<br>Closed horizontal joint |
| | Ventilated with EPDM gasket on the battens [a] | B-s2,d0<br>Open 6 mm joint |
| | Ventilated with Rockpanel strips 6 or 8 mm on the battens [b] | B-s2,d0<br>Open 6 mm joint |

*[a]: Width of the gasket 15 mm at both sides wider than the batten*
*[b]: Width of the strip 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, which are attached to the subframe mentioned below.

Substrates:

- Concrete walls, masonry walls
- The results are also valid for a wall made of timber frame (see "Insulation" for the backing of the panels)

Insulation:

- Ventilated constructions: The subframe is backed with minimum 50 mm mineral wool insulation with density 30-70 kg/m$^3$ according to EN 13162 with a cavity between the panels and the insulation.
- Non-ventilated constructions: The panels are backed with minimum 40 mm mineral wool insulation with 30-70 kg/m$^3$ between the battens and minimum 50 mm with density 30-70 kg/m$^3$ 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.
- Test results are also valid for the same type of panel used 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 28 mm.

- Test results are also valid for the same type of panel with an aluminium or steel frame.

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:
- The depth of the cavity is minimum 28 mm.
- Unfilled or filled with insulation of mineral wool with a density 30-70 kg/m$^3$ according to EN 13162.
- Test results are also valid for other higher thicknesses of air space between the back of the board and the insulation.

Joints:
- Vertical joints are with an EPDM foam gasket (Celdex EPDM Soft EP-4530) or Rockpanel strip backing as described in Table 1 and horizontal joints can be open or with an aluminium profile.
- 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 valid for the following product parameters:
Thickness: Nominal 6 mm
Density: Nominal 1050 kg/m$^3$

***Table 2*** *– Performance – Water vapour permeability and water permeability*

| *Essential characteristics* | BR3 – Hygiene, Health and environment | |
|---|---|---|
| *Property* | *Declared values* | *Harmonised technical specification* |
| Water vapour permeability | Durable 6 mm finish Uni $S_d$ < 1.80 m at 23°C and 85% RH<br><br>The designer shall consider the relevant needs for ventilation, heating and insulation to minimise condensation in service. | ETA-08/0343 issued on 2025-02-10<br>EN ISO 12572 test condition B |
| Water permeability | Incl. joints for non-ventilated applications: NPD | ETA-08/0343 issued on 2025-02-10 |

***Table 3*** *– Performance – Release of dangerous substances*

| *Essential characteristics* | BR3 – Hygiene, Health and environment | |
|---|---|---|
| *Property* | *Product specification* | *Harmonised technical specification* |
| Dangerous substances | The kit does not contain/release dangerous substances specified in TR 034, dated April 2013*), except<br>Formaldehyde concentration 0.0105 mg/m$^3$.<br>Formaldehyde class E1.<br>The used fibres are not potential carcinogenic<br>No biocides are used in the Rockpanel boards<br>No flame retardant is used in the boards<br>No cadmium is used in the boards. | ETA-08/0343 issued on 2025-02-10 |

**) 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 6 mm 'Durable' boards*
*Subframe: solid wood*

| *Essential characteristics* | | BR4 – Safety in use | | | |
|---|---|---|---|---|---|
| *Harmonised technical specification* | | ETA-08/0343 issued on 2025-02-10<br>EN 14592:2008+A1:2012 (E) | | | |
| *For service class **2** (see 'Note') and load-duration class **'Instantaneous'** [c]. For hole diameters fixings see table 5* | | | | | |
| Property | 6 mm boards | Span in mm [b] | | $X_d = X_k / \gamma_M$ in N | Table in ETA |
| | | a fixing | b board | Middle / Edge/ Corner | |
| Design value of the axial load $X_d = X_k / \gamma_M$ | **Screw** fixing [a] [e]<br>With the use of gaskets | 300 | 400 | C18 [d]: 334 / 182 / 111<br>C24 [d]: 334 / 182 / 111 | 6-1 [c] |
| | **Screw** fixing [a] [e]<br>With the use of 6 mm Rockpanel strips | 300 | 400 | C18 [d]: 334 / 182 / 111<br>C24 [d]: 334 / 182 / 111 | 6-2 [c] |
| | **Nail** fixing (32 mm) [e]<br>With the use of gaskets | 300 | 480 | C18 [d]: 183 / 157 / 132<br>C24 [d]: 219 / 157 / 132 | 7.1 [c] |
| | **Nail** fixing (40 mm) [e] - with the use of 6 mm Rockpanel strips | 300 | 480 | C18 [d]: 183 / 157 / 132<br>C24 [d]: 219 / 157 / 132 | 7.2 [c] |
| *[a] with $\alpha \geq 30°$: $\alpha$ is the angle between the screw axis and the grain direction*<br>*[b] see Table 5*<br>*[c] $k_{mod}$ = 1.10 in accordance with Table 3.1 – 'Values of $k_{mod}$ ' DS EN 1995-1-1:DK NA:2010; For 'service class' 2 ["ventilated structures protected against precipitation"] and 'load-duration class' 'Instantaneous' [Table 2.2 DS / EN 1995-1-1 DK NA: 2010-05 ]* | | *[d] Strength class EN 338*<br>*[e] for specifications fixings see Table 8a and 8b*<br><br>*Note (according to DS EN 1995-1-1 NA:2010-05 §2.3.1.3 (3)P ): Service class 2 "ventilated structures protected against precipitation, e.g. ventilated roof structures". EN 1995-1-1: In service class 2 the average moisture content in most softwoods will not exceed 20 %.* | | | |

***Table 4b** – Performance – Design value of the axial load for mechanical fixing 6 mm 'Durable' boards*
*Subframe: solid wood*

| *Essential characteristics* | | BR4 – Safety in use | | | |
|---|---|---|---|---|---|
| *Harmonised technical specification* | | ETA-08/0343 issued on 2025-02-10<br>EN 14592:2008+A1:2012 (E) | | | |
| *For service class **3** (see 'Note') and load-duration class **'Instantaneous'** [c]. For hole diameters fixings see table 5* | | | | | |
| Property | 6 mm boards | Span in mm [b] | | $X_d = X_k / \gamma_M$ in N | Table in ETA |
| | | a fixing | b board | Middle / Edge/ Corner | |
| Design value of the axial load $X_d = X_k / \gamma_M$ | **Screw** fixing [a] [e]<br>With the use of gaskets | 300 | 400 | C18 [d]: 334 / 182 / 111<br>C24 [d]: 334 / 182 / 111 | 6-1 [c] |
| | **Screw** fixing [a] [e]<br>With the use of 6 mm Rockpanel strips | 300 | 400 | C18 [d]: 313 / 182 / 111<br>C24 [d]: 334 / 182 / 111 | 6-2 [c] |
| | **Nail** fixing (32 mm) [e]<br>With the use of gaskets | 300 | 480 | C18 [d]: 150 / 150 / 132<br>C24 [d]: 179 / 157 / 132 | 7-1 [c] |
| | **Nail** fixing (40 mm) [e] - with the use of 6 or 8 mm Rockpanel strips | 300 | 480 | C18 [d]: 150 / 150 / 132<br>C24 [d]: 179 / 157 / 132 | 7-2 [c] |
| *[a] with $\alpha \geq 30°$: $\alpha$ is the angle between the screw axis and the grain direction*<br>*[b] see Table 5*<br>*[c] $k_{mod}$ = 0.90 in accordance with Table 3.1 – 'Values of $k_{mod}$ ' DS EN 1995-1-1 DK NA:2010-05; For 'service class' 3 [ "External uses fully exposed"] and 'load-duration class' 'Instantaneous' [Table 2.2 DS EN 1995-1-1 DK NA : 2010-05 ]* | | *[d] Strength class EN 338*<br>*[e] for specifications fixings see table 8a and 8b*<br><br>*Note (according to DS EN 1995-1-1 NA: 2010-05 §2.3.1.3 (3)P ): Service class 3 is characterised by climatic conditions leading to higher moisture contents than in service class 2 (compare 'Note' in Table 4a).* | | | |

***Table 4c** – Performance – Design value of the axial load for mechanical fixing 6 mm 'Durable' boards*
*Subframe: solid wood*

| *Essential characteristics* | | BR4 – Safety in use | | | |
|---|---|---|---|---|---|
| *Harmonised technical specification* | | ETA-08/0343 issued on 2025-02-10<br>EN 14592:2008+A1:2012 (E) | | | |
| *For service class **2** (see 'Note') and load-duration class **'Permanent'** [c]. For hole diameters fixings see table 5* | | | | | |
| Property | 6 mm boards | Span in mm [b] | | $X_d = X_k / \gamma_M$ in N | Table in ETA |
| | | a fixing | b board | Middle / Edge/ Corner | |
| Design value of the axial load $X_d = X_k / \gamma_M$ | **Screw** fixing [a] [e]<br>With the use of gaskets | 300 | 400 | C18 [d]: 334 / 182 / 111<br>C24 [d]: 334 / 182 / 111 | 6-1 [c] |
| | **Screw** fixing [a] [e]<br>With the use of 6 mm Rockpanel strips | 300 | 400 | C18 [d]: 209 / 182 / 111<br>C24 [d]: 224 / 182 / 111 | 6-2 [c] |
| | **Nail** fixing (32 mm) [e]<br>With the use of gaskets | 300 | 480 | C18 [d]: 100 / 100 / 100<br>C24 [d]: 120 / 120 / 120 | 7-1 [c] |
| | **Nail** fixing (40 mm) [e] - with the use of 6 mm or 8 Rockpanel strips | 300 | 480 | C18 [d]: 100 / 100 / 100<br>C24 [d]: 120 / 120 / 120 | 7-2 [c] |

*[a] with $\alpha \geq 30°$: $\alpha$ is the angle between the screw axis and the grain direction*
*[b] see Table 5*
*[c] $k_{mod}$ = 0.60 in accordance with Table 3.1 – 'Values of $k_{mod}$ ' DS EN 1995-1-1 DK NA: 2010; For 'service class' 2 ["Ventilated structures protected against precipitation"] and 'load-duration class' 'Permanent' [Table 2.2 DS EN 1995-1-1 DK NA:2010-05 ]*
*[d] Strength class EN 338*
*[e] for specifications fixings see table 8a and 8b*

*Note (according to DS EN 1995-1-1 NA: 2010-05 §2.3.1.3 (3)P ): Service class 2 "ventilated structures protected against precipitation, e.g. ventilated roof structures". EN 1995-1-1. In service class 2 the average moisture content in most softwoods will not exceed 20 %.*

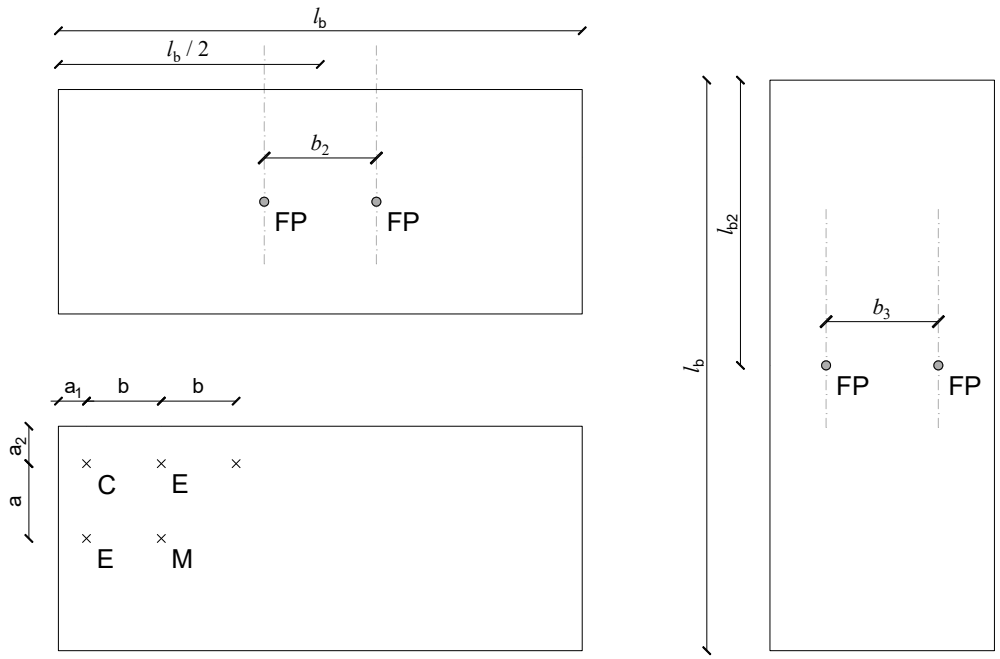
***Table 5** – Performance mechanical fixings – Minimum edge distances, maximum distances between fastening and hole diameter of fixing points in mm for 6 mm 'Durable' boards*

| *Essential characteristics* | BR4 – Safety in use | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| *Harmonised technical specification* | ETA-08/0343 issued on 2025-02-10 | | | | | | | |
| | Distances | | | | Hole diameter fixing | | | Board dimension |
| Fixing type [a] | $b_{max}$ | $a_{max}$ | $a_1$ | $a_2$ | Fixed hole | Moving hole | Slotted hole | considered |
| Screw | 400 | 300 | ≥ 15 | ≥ 50 | 3.2 | 6.0 | 3.4 * 6.0 | 1200 * 3050 |
| Nail | 480 | 300 | ≥ 15 | ≥ 50 | 2.5 | 3.8 | 2.8 * 4.0 | 1200 * 1600 [b] |

*[a] For specifications fixings see table 8a and 8b.*
*[b] board length considered: 1600 mm; In case of a larger panel length, and certain climate conditions, a tension between shaft and panel-hole may occur.*

***Table 6** – Performance fixings according to table 4 and 5 with the fixing locations and installation method of boards.*

| *Essential characteristics* | BR4 – Safety in use |
|---|---|
| *Harmonised technical specification* | ETA-08/0343 issued on 2025-02-10 Table 5.1 and 5.2 |




| | |
|---|---|
| $l_b$: length board | C: Fixing in corner |
| $b_2$: ± 400 mm | E: Fixing at edge |
| FP: Fixed points | M: Fixing at intermediate position |
| All the other fixing points are moving points | |

***Table 7** – Performance shear strength mechanical fixings*

| *Essential characteristics* | BR4 – Safety in use | | |
|---|---|---|---|
| *Harmonised technical specification* | ETA-08/0343 issued on 2025-02-10 | | |
| | *Fixing* | *Failure load* | *Deformation* |
| Characteristic shear strength mechanical fixings | Screws | 1182 N | 8 mm |
| Average values | Nails | 1062 N | 12 mm |

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

Ring-shank nail – Standard version 2.7/2.9 x 32 and 2.7/2.9 x 40 mm
Stainless steel in accordance with EN 10088 - Material number 1.4401 or 1.4578 Definitions in accordance with EN 14592:2008+A1:2012

| | |
|---|---|
| $d$ | = 2,6 – 2,8 |
| $d_2$ | = 2,8 – 3,0 |
| $l$ nail 32 | = 31 – 32,5 |
| $l$ nail 40 | = 39 – 40,5 |
| $l_2$ nail 32 | = 24 – 26 |
| $l_2$ nail 40 | = 32 – 34 |
| $l_p$ | = ≤ 4,8 |
| $l_g$ | = $l_2$ - $l_p$ |
| $d_h$ | = 5,8 – 6,3 |
| $h_t$ | = 0,8 – 1,0 |

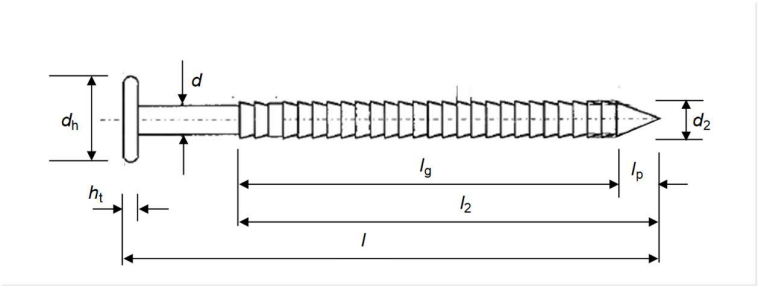


***Table 8b** – Specifications mechanical fixings – fasteners for timber sub-constructions.*

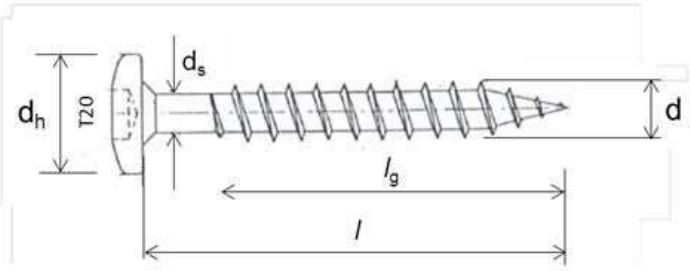
| Torx screws 4.5 x 35 mm<br>Stainless steel in accordance with EN 10088 - Material number 1.4401 or 1.4578 Definitions in accordance with EN 14592:2008+A1:2012 | |
|---|---|
| $d$ = 4.3 – 4.6<br>$d_s$ = 3.3 – 3.4<br>$d_h$ = 9.6 - 0.4<br>$l$ = 35 -1.25<br>$l_g$ = 26.25 – 28.5 |  |

***Table 9** – Performance Impact resistance*

| *Essential characteristics* | BR4 – Safety in use | | |
|---|---|---|---|
| *Harmonised technical specification* | ETA-08/0343 issued on 2025-02-10 | | |
| *Impactor* | | *Energy* | *Category* |
| Hard body | Steel ball 0.5 kg | 3 J | I |
| Soft body | Ball 3 kg | 10 J | III |

***Table 10 –** Performance dimensional stability*

| *Essential characteristics* | BR4 – Safety in use | |
|---|---|---|
| *Harmonised technical specification* | ETA-08/0343 issued on 2025-02-10 | |
| | *Length* | *Width* |
| Cumulative dimensional change [a] | 0.085 % | 0.084 % |
| Coefficient of thermal expansion $10^{-6}$ $K^{-1}$ | 10.5 | 10.5 |
| Coefficient of moisture expansion 42% RH difference after 4 days mm/m | 0.288 | 0.317 |

*[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-08/0343 issued on 2025-02-10 | |
| | | *Performance* |
| Resistance to Hygrothermal cycles | | Pass |
| Resistance to Xenon Arc exposure<br>*EOTA TR010 climate class S (Technical Report 010)*<br>5000 hours artificial weathering | Finish 'Uni' | ISO 105 A02: 3-4 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.*

Signed for and on behalf of the manufacturer by: ROCKWOOL B.V.
W.J.E. Dumoulin
Technical Director Operations
DE-NL

At: Roermond, The Netherlands on: 24-02-2025

*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*