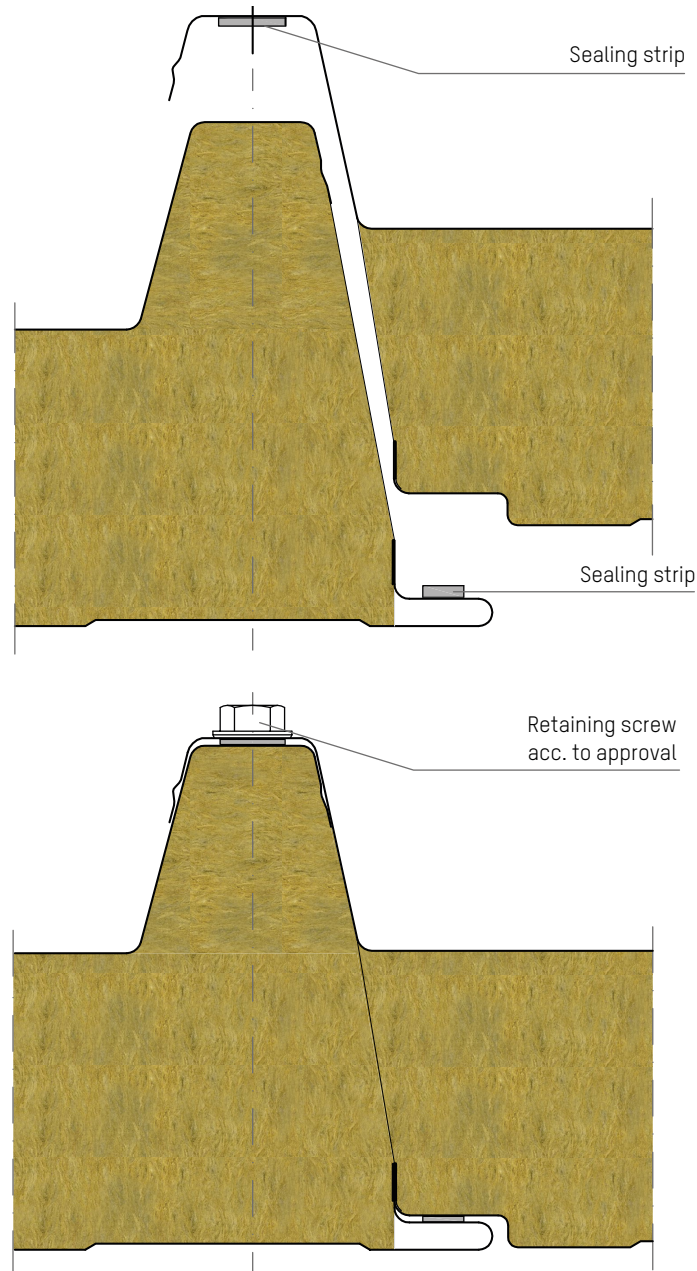


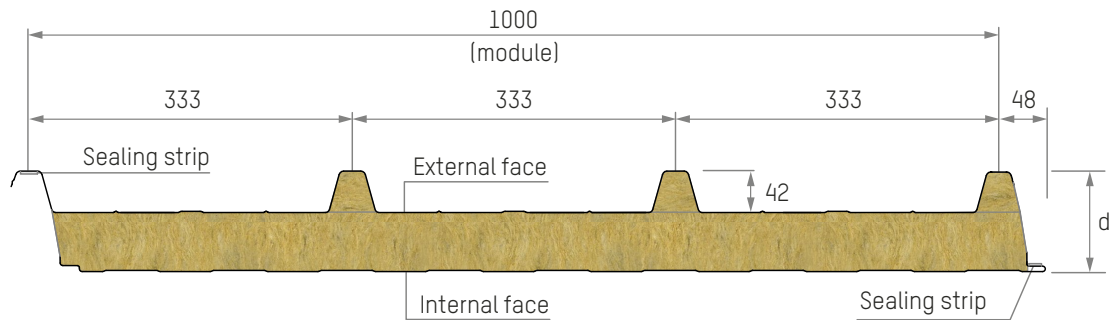
## Quick-assembly MW roof panel, type FD

High quality thermal insulation system for safe and rapid roofing with higher fire protection requirements



- Mineral wool insulating core with two different volume weights
- quick and easy assembly
- Joint formation matching type D and RD PIR panel
- Width of module 1,000 mm
- Insulation thickness (without beads) 60, 80, 100, 120, 140, 150, 170, 200, 240 mm
- recommended roof pitch min. 5% ( $\pm 3^\circ$ )

# Quick-assembly MW roof panel, type FD with steel cladding on both sides



|                                         |                                                                                                                                                                                                                         |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Cladding layers</b>                  | Coil galvanized and coated sheet steel with organic coating materials, further cladding layers on request                                                                                                               |
| <b>Surface finishes</b>                 | Standard: external face trapezoidal profile (333 mm), internal face profiled (56 mm), internal face flat (optional)                                                                                                     |
| <b>Insulating core</b>                  | Mineral fiber, non-flammable (A1), fiber-adjusted, water-repellent                                                                                                                                                      |
| <b>Fire tests</b>                       | <div> <div>EU</div> <div>Euro-Class A2-s1, d0 according to EN 13501-1</div> </div> <div> <div>CH</div> <div>RF1 according to VKF Bern</div> </div> <div> <div>FM</div> <div>FM Approval (4880, 4881, 4471)</div> </div> |
| <b>Fire resistance</b>                  | Z-19.52-2187; FD142 (and thicker) REI 90 according to EN 13501-2; see fire safety matrix                                                                                                                                |
| <b>Environment &amp; sustainability</b> | EPD, DGNB, LEED v4, BREEAM                                                                                                                                                                                              |
| <b>Approval</b>                         | Z-10.49-836/1 resp. -837/1; Sandwich elements for roof and wall constructions                                                                                                                                           |
| <b>Available length</b>                 | Panel lengths up to 16,000 mm; Notching type R+L 60-300 mm, from 3,200 mm panel length possible                                                                                                                         |
| <b>Production tolerances</b>            | DIN EN 14509                                                                                                                                                                                                            |
| <b>Sound insulation</b>                 | Type FD eco 30 dB / Type FD 32 dB from thickness 60 mm                                                                                                                                                                  |
| <b>Statics</b>                          | See our span tables or ROMA Panel Master: <a href="http://panelmaster.romakowski.com">http://panelmaster.romakowski.com</a>                                                                                             |
| <b>Applications</b>                     | Roof (for roof pitch < 5% additional waterproofing measures are required), Wall, Ceiling                                                                                                                                |

| Panel type                                     |                       | FD102 | FD122      | FD142      | FD162      | FD182      | FD192      | FD212      | FD242      | FD282      |
|------------------------------------------------|-----------------------|-------|------------|------------|------------|------------|------------|------------|------------|------------|
| Density                                        | kg/m <sup>3</sup>     | 120   |            |            |            |            |            |            |            |            |
| Panel thickness                                | mm                    | 102   | 122        | 142        | 162        | 182        | 192        | 212        | 242        | 282        |
| Insulating thickness (without bead)            | mm                    | 60    | 80         | 100        | 120        | 140        | 150        | 170        | 200        | 240        |
| Cladding layer thicknesses                     |                       |       |            |            |            |            |            |            |            |            |
| External                                       | mm                    | 0.6   | 0.6        | 0.6        | 0.6        | 0.6        | 0.6        | 0.6        | 0.6        | 0.6        |
| Internal                                       | mm                    | 0.5   | 0.5        | 0.5        | 0.5        | 0.5        | 0.5        | 0.5        | 0.5        | 0.5        |
| Panel weight approx.                           | kg/m <sup>2</sup>     | 18.3  | 20.7       | 23.1       | 25.5       | 27.9       | 28.6       | 31.5       | 35.1       | 39.9       |
| U value in accordance with EN 14509 with joint | W/(m <sup>2</sup> ·K) | 0.699 | 0.534      | 0.432      | 0.363      | 0.313      | 0.292      | 0.259      | 0.221      | 0.185      |
| Panel type                                     |                       |       | FD eco 122 | FD eco 142 | FD eco 162 | FD eco 182 | FD eco 192 | FD eco 212 | FD eco 242 | FD eco 282 |
| Density                                        | kg/m <sup>3</sup>     |       | 90         |            |            |            |            |            |            |            |
| Panel weight approx.                           | kg/m <sup>2</sup>     |       | 18.2       | 20.0       | 21.8       | 23.6       | 24.0       | 26.3       | 29.0       | 33.6       |
| U value in accordance with EN 14509 with joint | W/(m <sup>2</sup> ·K) |       | 0.468      | 0.378      | 0.317      | 0.273      | 0.255      | 0.226      | 0.192      | 0.161      |