



Single skin Profiled metal-sheet Trimoval

SUSTAINABLE SOLUTIONS

The Trimoval profiled metal sheet are intended for roofing and cladding of non-heated buildings or as a final lining of ventilated roofs and façades. The Trimoval product group consists of **profiled metal sheet with anticondensation insulating layer TPO 1000 and TPO Dom** and **profiled single skin metal sheet TP 835, TP 650, TPF 835 and TPF 650**.

Certificates



EN 14782:2006

Trimoval cladding sheets have been tested at the ZAG Ljubljana Institute in accordance with the EN 14782 Standard and the ETAG 016 Guidelines. All significant characteristics have been tested in accordance with the type of use.

Tests have shown that the products meet the Standard's requirements with regards to: walkability, water resistance, dimension tolerances, dangerous substance content, corrosion resistance, excellent fire resistance characteristics with regards to external fire performance (Broof (t1)), as well as flammability (Trimoval TPO: C-s2,do).

Panels are resistant to sparks of fire (2000/553/EC) and do not spread flames. With the use of the aluminium foil the panel reaches the highest level of resistance to flame spreading.



TRIMOVAL TPO 1000 and TPO Dom

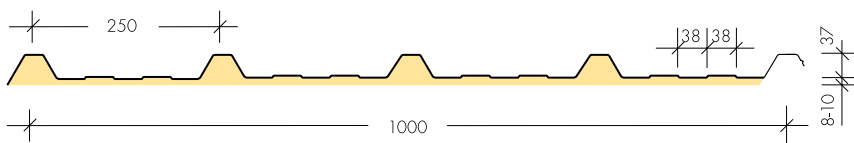
Trimoval TPO 1000 and TPO Dom are made of galvanized and painted steel sheet and have an 8-10 mm polyurethane spatter coating on the bottom side. The trapezoids are filled with non-inflammable mineral wool. Such layer prevents condensation, thus prolonging the lifespan of the roof panels and roofing. The bottom layer of the panel is closed by aluminium foil.

Technical data

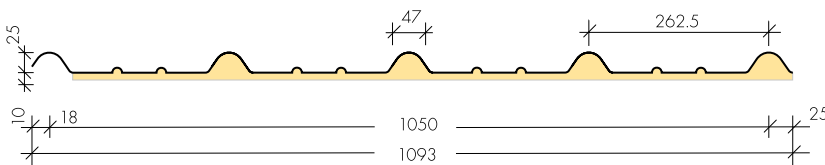
Type	TPO 1000	TPO Dom
Metal sheet thickness [mm]	Fe 0.6	Fe 0.6
Weight [kg/m ²]	7.93	6.5
Length [m]	to 14	to 14

Profile design

Trimoval TPO 1000



Trimoval TPO Dom



TRIMOVAL TP 650, TPF 650, TP 835, TPF 835

The Trimoval profiled sheets metal are made of galvanized and painted steel sheet.

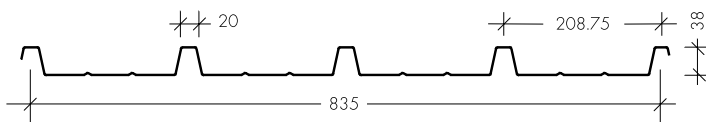
The profiled sheets metal that have an additional layer of fabric on the bottom side, which retains condensation, are called Trimoval TPF. The fabric that absorbs moisture consists of polyester fibres, bonded to steel sheet by acrylic glue (weight 120 g/m², moisture absorption 360 g/m²). A continuous alternation between absorption and evaporation is established.

Technical data

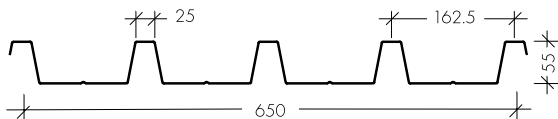
Type	TP 650	TPF 650	TP 835	TPF 835
Metal sheet thickness [mm]	Fe 0.6	Fe 0.6	Fe 0.6	Fe 0.6
Weight [kg/m ²]	7.86	8.06	6.12	6.27
Length [m]	to 12	to 12	to 12	to 12

Profile design

Trimoval TP 835 and TPF 835



Trimoval TP 650 and TPF 650





STRUCTURAL DESIGN DATA

TPO 1000 and TPO Dom

TPO 1000 Load-bearing capacity (kN/m ²)	0,75	1,00	1,25	1,50	1,75
single span support [m]	2,28	2,00	1,86	1,75	1,65
double span support [m]	2,95	2,66	2,50	2,35	2,16
triple span support [m]	2,85	2,50	2,32	2,20	2,11

The values stated apply to minimum loads on end-supports, which are 40 mm wide; and to minimum loads on intermediate supports, which are 60 mm wide. The 1/150 maximum deflection criteria is taken into consideration.

TPO Dom Load-bearing capacity (kN/m ²)	0,75	1,00	1,25	1,50	1,75
single span support [m]	2,27	2,13	2,02	1,88	1,80
double span support [m]	2,97	2,86	2,70	2,60	2,44
triple span support [m]	2,90	2,80	2,69	2,54	2,41



EN 14782:2006

TP 650, TPF 650, TP 850 and TPF 850

TP and TPF 650 Load-bearing capacity (kN/m ²)	0,75	1,00	1,25	1,50	1,75
single span support [m]	3,63	3,29	3,06	2,88	2,73
double span support [m]	4,77	4,33	4,02	3,78	3,59
triple span support [m]	4,44	4,03	3,74	3,52	3,35

TP and TPF 835 Load-bearing capacity (kN/m ²)	0,75	1,00	1,25	1,50	1,75
single span support [m]	2,51	2,30	2,11	1,94	1,77
dvopoljni nosilec [m]	2,70	2,40	2,15	1,95	1,75
triple span support [m]	2,48	2,27	2,11	1,99	1,87

The values stated for the TP 650 profile apply to minimum loads on end-supports, which are 40 mm wide; and to minimum loads on intermediate supports, which are 60 mm wide! They apply to single, double, and triple-span supports. The values for the TP 835 profiles apply to minimum loads on supports, which are 60 mm wide, and a maximum deflection criteria of 1/150 with a single span support, and 1/300 with a double and the triple span support.





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