

# Mineral wool sandwich element

WDI ISO Fire®



## 1.00 Specifications

- Insulation core:** Non-combustible mineral wool according to DIN EN 13162, vertical standing fiber, euro class A1 according to DIN EN 13501-1, high bio-solubility according to TRGS 905, environmentally friendly and recyclable, density approx. 100 kg / m<sup>3</sup>
- Top layers:**
- Inside:**  
sendzimir galvanized sheet steel, d = 0.6 mm, with 25 µm polyester coating (L), with protective film for transport and assembly, surface finish: flat or lined
- Outside:**  
sendzimir galvanized sheet steel, d = 0.6 mm, with 15 µm polyester coating (DU), without protective film, surface finish: flat or lined

## 2.00 Application

Non-load-bearing sandwich element as inner wall, facing shell or ceiling inside the building without static proof. Applications under increased fire resistance requirements up to EI 90 according to EN 13501-2 valid for elements from an insulation thickness of 130 mm upwards.

Due to their silicone-free nature, they are suitable for use in areas of the painting industry. If the mineral wool sandwich element is used as a façade element, an object-related proof of stability for the individual case is required as the basis for the building permit process and must be prepared by the representative of the client by a recognized engineering office. We recommend a thickness of 0.75 mm as an outer top layer in these cases.

## 3.00 Technical data

Element thicknesses	(mm)	40	50	60	80	100
Element lengths min.	(mm)	2,000	2,000	2,000	2,000	2,000
Element lengths max.	(mm)	4,000	6,000	7,000	9,000	9,000
Heat transfer coefficients	(W/m <sup>2</sup> K)	0.944	0.781	0.665	0.513	0.418
Tare weights	(kg/m <sup>2</sup> )	14.80	15.90	17.00	19.20	21.40
Max. elements / range	(pieces)	26	21	17	13	10
Ceiling spans	(mm)	2,000	2,500	3,500	3,500	4,000

### Further element thicknesses on request.

The specified element lengths only apply to standard elements with a width of 1,100 mm regardless of additional installation components. In principle, element widths from 300 mm to 1,100 mm are possible on request.

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The determination of the heat transfer coefficients U was carried out only in consideration of the insulation core with a coefficient of thermal conductivity of 0.045 W/mK.

The specified tare weights apply only to standard elements with a double-sided top layer of sheet steel with a thickness of  $d = 0.60$  mm, regardless of additional installation components.

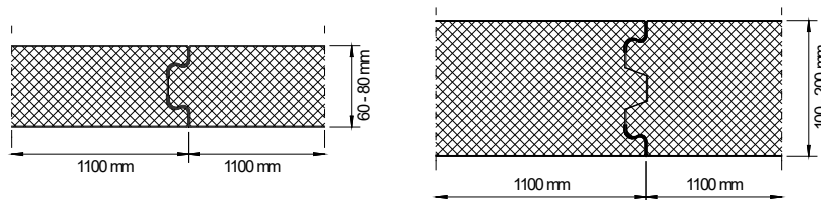
The specified spans result from the derivation of objects worked on. The ceiling panels must not be loaded during and after assembly.

### 4.00 Mineral wool sandwich element as floor element

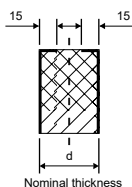
If the mineral wool sandwich element is used as a floor element, pressure distribution plates or pressure beams corresponding to the requirements must be arranged individually or in combination according to the client's specification for the removal of point or area loads.

In principle, the mineral wool sandwich element does not absorb any or light loads without additional installation components.

### 5.00 Element joints



### 6.00 Face-side top layer wrap for uncut elements



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