



# Specification code: MW-EN13162-T5-DS(70,90)-CS(10)70-TR15-PL(5)850-WS-WL(P)-MU1

### **TECHNICAL SPECIFICATION**

Mineral wool for thermal insulation slabs BELTEP is produced on the base of basalt fiber. Its insulating properties are based on the chaotic arrangement of the fibers and the content between a large number of air pores which have a low thermal conductivity. The production is based on defibring method of the minerals composition melt and additional additives and ingredients. The mineral fibres produced are processed into the final slab shape on the production line. The entire fibre surface is hydrophobic. The slabs in the construction have to be protected suitably (vapour-proof foil, separation layers, water-proofing membrane of the flat UNIQUE warm decks).

#### PACKAGING, TRANSPORT, WAREHOUSING

Insulating slabs are packed on the pallets in height up to 1,40 m. The slabs have to be transported in covered vehicles under conditions preventing their wetting or other degradation. They should be stored flat in sheltered space to maximum layer height of 2,80 m.

#### APPLICATION

One-layer insulating of combined roofs under increased loads.

- at
   UNIQUE FEATURES OF WOOL BELTEP

   EASY INSTALLATION

   SAFETY AND ECOLOGICAL COMPATIBILITY
- **THERMAL INSULATION PROPERTIES**
- MECHANICAL STRENGTH
- CHEMICAL RESISTANCE
- HYDROPHOBIC PROPERTIES
- **Ø** FIRE PROPERTIES
- A HIGH LEVEL OF NOISE REDUCTION

## OURABLE IN USE

DIMENSIONS AND PACKAGING											
Slab	s dimensi	ons, mm	Stacking of packages on a pallet								
length	width	thickness	rows	rows slabs		the volume,	net,	gross, kg			
					pallet, m	m <sup>3</sup>	kg				
2000	1200	40	30	30	1,32	2,880	504	576			
		50	25	25	1,37	3,000	525	597			
		60	21	21	1,38	3,024	529	601			
		70	18	18	1,38	3,024	529	601			
		80	16	16	1,40	3,072	528	610			
		90	14	14	1,38	3,024	529	601			
		100	12	12	1,32	2,880	504	576			
		110	11	11	1,33	2,904	508	580			
		120	10	10	1,32	2,880	504	576			
		130	9	9	1,29	2,808	491	563			
		140	9	9	1,38	3,024	529	601			
		150	8	8	1,32	2,880	504	576			

### PHYSICAL AND MECHANICAL PROPERTIES

Essential Characteristics			Clauses in this and other European standard(s) related to essential characteristics					Harmonized standard EN 13162:2012+A1:2015				Decl	Declared value	
Reaction to fire			4.2.6 Reaction to fire					Euroclasses					A1	
Thermal resistance			4.2.1 Thermal resistance and thermal					Thermal conductivity $\lambda$ (W/mK)					0,038	
			conductivity						Thermal resistance R=d / $\lambda$ , (m <sup>2</sup> K/W)				,1÷3,9 ee table	
			4.2.3 Thickness					Thickness range, (mm)				40	40 - 150	
								Ti class for thickness tolerance					T5	
Water permeability			4.3.7.1 Short term water absorption					WS - declared $W_P$ , (kg/m <sup>2</sup> )					$\leq 1$	
			4.3.7.2 Long term water absorption					WL(P) - declared $W_{lp}$ , (kg/m <sup>2</sup> )					≤ 3	
Water vapour pe	4.3.8 Water vapour transmission					Declared MUi					MU1			
Compressive str	rength		4.3.3 Compressive stress or compressive strength					CS(10)i declared (kPa)					≥70	
			4.3.5 Point load					PL(5)I declared (N)				$\geq$ 850		
Durability of the against heat, we ageing/degradat	4.2.7 Durability characteristics				DS(70,90) declared The relative changes in thickness				≤ 1					
Tensile strength	4.3.4 Tensile strength perpendicular to faces				TRi declared (kPa)				≥15					
Thermal resistance R <sub>D</sub>														
d. (mm)	40	50	60	70	80	90	100	)	110	120	130	140	150	

**RELATED DOCUMENTS:** 

1.1

1.3

1,6

1.8

2.1

 $R_{\rm D}$ , (m<sup>2</sup>K/W)

• EC compliance certificate 1020 – CPR – 010022606

2.4

Declaration of Performance 0016-DoP-2016/12/01



3.4

3.7

3.9



2,6

2.9

3,2