

Beltep ROOF 60

Thermal insulation slabs of mineral wool



Specification code: MW-EN13162-T5-DS(70,90)-CS(10)60-TR15-PL(5)800-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 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.

UNIQUE FEATURES OF WOOL BELTEP

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

DIMENSIONS AND PACKAGING

DURABLE IN USE

Slabs dimensions, mm			Stacking of packages on a pallet					
length	width	thickness	rows	slabs	height with pallet, m	the volume, m ³	net, kg	gross, kg
2000	1200	40	30	30	1,32	2,880	475	547
		50	25	25	1,37	3,000	495	567
		60	21	21	1,38	3,024	499	571
		70	18	18	1,38	3,024	499	571
		80	16	16	1,40	3,072	507	579
		90	14	14	1,38	3,024	499	571
		100	12	12	1,32	2,880	475	547
		110	11	11	1,33	2,904	479	551
		120	10	10	1,32	2,880	475	547
		130	9	9	1,29	2,808	463	535
		140	9	9	1,38	3,024	499	571
		150	8	8	1,32	2,880	475	547

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	Declared value
Reaction to fire	4.2.6 Reaction to fire	Euroclasses	A1
Thermal resistance	4.2.1 Thermal resistance and thermal conductivity	Thermal conductivity λ (W/mK)	0,037
		Thermal resistance $R=d / \lambda$, (m ² K/W)	1,1÷4,1 See table
	4.2.3 Thickness	Thickness range, (mm)	40 - 150
Water permeability	4.3.7.1 Short term water absorption	WS - declared W_p , (kg/m ²)	≤ 1
	4.3.7.2 Long term water absorption	WL(P) - declared W_{ip} , (kg/m ²)	≤ 3
Water vapour permeability	4.3.8 Water vapour transmission	Declared MU_i	MU1
Compressive strength	4.3.3 Compressive stress or compressive strength	CS(10)i declared (kPa)	≥ 60
	4.3.5 Point load	PL(5)I declared (N)	≥ 800
Durability of thermal resistance against heat, weathering, ageing/degradation	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_p

d, (mm)	40	50	60	70	80	90	100	110	120	130	140	150
R_p , (m ² K/W)	1,1	1,4	1,6	1,9	2,2	2,4	2,7	3,0	3,2	3,5	3,8	4,1

RELATED DOCUMENTS:

- EC compliance certificate 1020 – CPR – 010022606
- Declaration of Performance 0015-DoP-2016/12/01