

BETEK THERMAL INSULATION GROUP

BETEK TECT CARBON BLACK EPS

DESCRIPTION

Betek Tect Carbon Black EPS is a carbonized polystyrene-based thermal insulation plate that is produced in line with TS EN 13163 Insulation Materials Standard.

SPECIFICATIONS

- Thermal conductivity coefficient of $\lambda_D = 0.032 \text{ W/mK}$.
- High water vapor permeability ($\mu=20-40$). Prevents humidity, moisture and mold in structures.
- Ability to stand all mechanical loads in structures. Prevents the formation of plaster, paint and coating cracks resulting from expansion, shrinkage and wall wearing.
- Reaches perfect size balance by resting after production according to the standards and has no risk of size/angle shift in time.

STORAGE

Store at a cool and ventilated environment away from direct sun light and substances like solvents and thinners.

TECHNICAL SPECIFICATIONS

	BETEK TECT THERMAL INSULATION BOARD	UNIT	CLASS
Thermal Conductivity Coefficient (λ)	0.032	W/mK	
Tensile Strength Perpendicular to Surface	>100	kPa	TR 100
Compressive Strength at 10% Deformation	>60	kPa	CS(10)70
Length Tolerance	± 2	mm	L2
Width Tolerance	± 2	mm	W2
Thickness Tolerance	± 1	mm	T2
Size/Angle Tolerance	± 2	mm/m	S2
Dimensional Stability			
23 °C, 50% relative humidity	$\pm 0.2\%$		DS(N)2
48 hours, 70 °C, 50% relative humidity	1%		DS(70,-) 1
Long Term Water Absorption			
1 week in full immersion	< 1%		WL(T)1
1 year in full immersion	< 3%		WL(T)3
Partial immersion	< 0.5	kg/m ²	
Water Vapor Diffusion Resistance Coefficient	20-40	μ	
Fire Endurance	Hard to inflame.		B1
			E
Temperature Range	(-50) / 75	°C	
Dimensions	50 x 100	cm	
Thickness	2, 3, 4, 5, 6, 7, 8	cm	

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