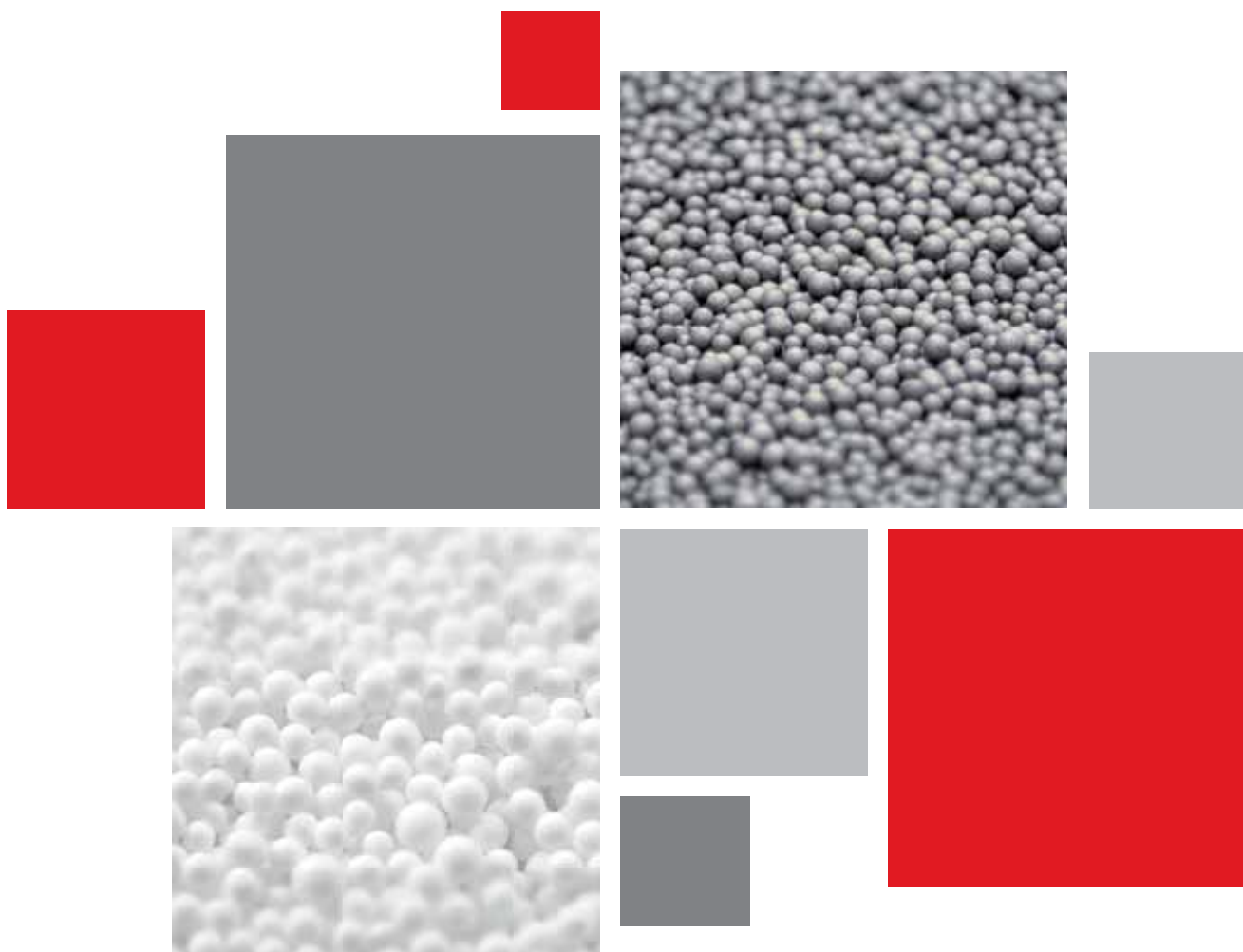




teknoprofil®

EPS THERMAL INSULATION PRODUCTS AND EXTERIOR THERMAL INSULATION SYSTEMS



TEKNOPOR EPS THERMAL INSULATION BOARDS



Technical Specifications

TEKNOPOR THERMAL INSULATION BOARDS											
Specifications	Unit	Definition								Tolerance	Standard
Density	kg/m ³	16	18	20	22	24	26	28	30		
Length and Width	mm	L2, W2								±2	TS EN 822
Thickness	mm	T2								±2	TS EN 823
Reaction to Fire Class	-	E								-	TS EN 13501-1
Thermal Conductivity (λ)	W/mK	0,038	0,037	0,035	0,035	0,035	0,034	0,034	0,034	Max.	TS EN 12667
Bending Strength	kPa	BS 150	BS 200	BS 200	BS 200	BS 200	BS 250	BS 250	BS 250	Min.	TS EN 12089
Compressive Stress at 10% Deformation	kPa	CS(10)80	CS(10)90	CS(10)100	CS(10)120	CS(10)120	CS(10)150	CS(10)150	CS(10)150	Min.	TS EN 826
Tensile Strength Perpendicular to Faces	kPa	TR 150	TR 180	TR 200	TR 200	TR 200	TR 200	TR 200	TR 200	Min.	TS EN 1607
Deviation from Squareness	mm/m	Sb5								±5	TS EN 824
Flatness	mm	P3								±3	TS EN 825
Dimensional Stability Under Constant Normal Laboratory Conditions	-	DS(N)5								±%0,5	TS EN 1603
Dimensional Stability Under Specified Temperature and Humidity Conditions	-	DS(70,-)1								±%1	TS EN 1604
Long Term Water Absorption by Total Immersion	-	WL(T)3	WL(T)3,5	WL(T)3,5	WL(T)3,5	WL(T)4	WL(T)4	WL(T)4	WL(T)4	-	TS EN 12087
Water Vapour Diffusion Resistance Factor (μ)	-	20-40	30-70	30-70	30-70	30-70	30-70	30-70	30-70	-	TS EN 12086
Compressive Creep	-	CC(3/4/10)10								-	TS EN 1606
Maximum Usage Temperature	°C	75								Max.	-

Packaging

Product	Width (cm)	Length (cm)	Thickness (mm)	Unit/Pack	Unit/Pack (m ²)	Volume (m ³)
Teknopor EPS Thermal Insulation Board	50	100	20	25	12,50	0,25
			25	20	10,00	0,25
			30	16	8,00	0,24
			40	12	6,00	0,24
			50	10	5,00	0,25
			60	8	4,00	0,24
			80	6	3,00	0,24
			100	5	2,50	0,25

Teknopor Thermal Insulation Values

Density	Thickness	Thermal Conductivity	Thermal Transmittance	Thermal Resistance
kg/m ³	d (mm)	λ (W/mK)	U (W/m ² K)	R (m ² K/W)
10	20	0,043	2,20	0,45
	25	0,043	1,75	0,55
	30	0,043	1,45	0,65
	40	0,043	1,10	0,90
	50	0,043	0,90	1,15
	60	0,043	0,75	1,35
	80	0,043	0,55	1,85
	100	0,043	0,45	2,30

Density	Thickness	Thermal Conductivity	Thermal Transmittance	Thermal Resistance
kg/m ³	d (mm)	λ (W/mK)	U (W/m ² K)	R (m ² K/W)
12	20	0,041	2,10	0,45
	25	0,041	1,70	0,60
	30	0,041	1,40	0,70
	40	0,041	1,05	0,95
	50	0,041	0,85	1,20
	60	0,041	0,70	1,45
	80	0,041	0,55	1,95
	100	0,041	0,45	2,40

Density	Thickness	Thermal Conductivity	Thermal Transmittance	Thermal Resistance
kg/m ³	d (mm)	λ (W/mK)	U (W/m ² K)	R (m ² K/W)
14	20	0,039	2,00	0,50
	25	0,039	1,60	0,60
	30	0,039	1,35	0,75
	40	0,039	1,00	1,00
	50	0,039	0,80	1,25
	60	0,039	0,70	1,50
	80	0,039	0,50	2,05
	100	0,039	0,40	2,55

Density	Thickness	Thermal Conductivity	Thermal Transmittance	Thermal Resistance
kg/m ³	d (mm)	λ (W/mK)	U (W/m ² K)	R (m ² K/W)
16*	20	0,038	1,95	0,50
	25	0,038	1,55	0,65
	30	0,038	1,30	0,75
	40	0,038	0,95	1,05
	50	0,038	0,80	1,30
	60	0,038	0,65	1,55
	80	0,038	0,50	2,10
	100	0,038	0,40	2,60

Density	Thickness	Thermal Conductivity	Thermal Transmittance	Thermal Resistance
kg/m ³	d (mm)	λ (W/mK)	U (W/m ² K)	R (m ² K/W)
18*	20	0,037	1,85	0,50
	25	0,037	1,50	0,65
	30	0,037	1,25	0,80
	40	0,037	0,95	1,05
	50	0,037	0,75	1,35
	60	0,037	0,65	1,60
	80	0,037	0,50	2,15
	100	0,037	0,35	2,70

Density	Thickness	Thermal Conductivity	Thermal Transmittance	Thermal Resistance
kg/m ³	d (mm)	λ (W/mK)	U (W/m ² K)	R (m ² K/W)
20*	20	0,035	1,75	0,55
	25	0,035	1,40	0,70
	30	0,035	1,20	0,85
	40	0,035	0,90	1,10
	50	0,035	0,70	1,40
	60	0,035	0,60	1,70
	80	0,035	0,45	2,25
	100	0,035	0,35	2,85

Density	Thickness	Thermal Conductivity	Thermal Transmittance	Thermal Resistance
kg/m ³	d (mm)	λ (W/mK)	U (W/m ² K)	R (m ² K/W)
22*	20	0,035	1,75	0,55
	25	0,035	1,40	0,70
	30	0,035	1,20	0,85
	40	0,035	0,90	1,10
	50	0,035	0,70	1,40
	60	0,035	0,60	1,70
	80	0,035	0,45	2,25
	100	0,035	0,35	2,85

Density	Thickness	Thermal Conductivity	Thermal Transmittance	Thermal Resistance
kg/m ³	d (mm)	λ (W/mK)	U (W/m ² K)	R (m ² K/W)
24*	20	0,035	1,75	0,55
	25	0,035	1,40	0,70
	30	0,035	1,20	0,85
	40	0,035	0,90	1,10
	50	0,035	0,70	1,40
	60	0,035	0,60	1,70
	80	0,035	0,45	2,25
	100	0,035	0,35	2,85

Density	Thickness	Thermal Conductivity	Thermal Transmittance	Thermal Resistance
kg/m ³	d (mm)	λ (W/mK)	U (W/m ² K)	R (m ² K/W)
26*	20	0,034	1,75	0,55
	25	0,034	1,40	0,70
	30	0,034	1,15	0,85
	40	0,034	0,85	1,15
	50	0,034	0,70	1,45
	60	0,034	0,60	1,75
	80	0,034	0,45	2,35
	100	0,034	0,35	2,90

Density	Thickness	Thermal Conductivity	Thermal Transmittance	Thermal Resistance
kg/m ³	d (mm)	λ (W/mK)	U (W/m ² K)	R (m ² K/W)
28*	20	0,034	1,75	0,55
	25	0,034	1,40	0,70
	30	0,034	1,15	0,85
	40	0,034	0,85	1,15
	50	0,034	0,70	1,45
	60	0,034	0,60	1,75
	80	0,034	0,45	2,35
	100	0,034	0,35	2,90

Density	Thickness	Thermal Conductivity	Thermal Transmittance	Thermal Resistance
kg/m ³	d (mm)	λ (W/mK)	U (W/m ² K)	R (m ² K/W)
30*	20	0,034	1,75	0,55
	25	0,034	1,40	0,70
	30	0,034	1,15	0,85
	40	0,034	0,85	1,15
	50	0,034	0,70	1,45
	60	0,034	0,60	1,75
	80	0,034	0,45	2,35
	100	0,034	0,35	2,90

* Densities recommended for use in exterior thermal insulation systems

Certificates



TS EN ISO 9001

TS ISO/IEC 27001

TS EN ISO 14064-1

GRAPHITE TEKNOPOR EPS THERMAL INSULATION BOARDS



Technical Specifications

GRAPHITE TEKNOPOR EPS THERMAL INSULATION BOARDS							
Specifications	Unit	Definition				Tolerance	Standard
Density	kg/m ³	14	16	18	20		
Length and Width	mm	L2, W2				±2	TS EN 822
Thickness	mm	T2				±2	TS EN 823
Reaction to Fire Class	–	E				–	TS EN 13501-1
Thermal Conductivity (λ)	W/mK	0,032	0,031	0,031	0,031	Max.	TS EN 12667
Bending Strength	kPa	BS 115	BS 125	BS 125	BS 125	Min.	TS EN 12089
Compressive Stress at 10% Deformation	kPa	CS(10)50	CS(10)60	CS(10)60	CS(10)60	Min.	TS EN 826
Tensile Strength Perpendicular to Faces	kPa	TR 80	TR 100	TR 100	TR 100	Min.	TS EN 1607
Deviation from Squareness	mm/m	Sb5				±5	TS EN 824
Flatness	mm	P3				±3	TS EN 825
Dimensional Stability Under Constant Normal Laboratory Conditions	–	DS(N)5				±%0,5	TS EN 1603
Dimensional Stability Under Specified Temperature and Humidity Conditions	–	DS(70,-)1				±%1	TS EN 1604
Long Term Water Absorption by Total Immersion	–	WL(T)3,5				–	TS EN 12087
Water Vapour Diffusion Resistance Factor (μ)	–	20-40	20-40	20-40	20-40	–	TS EN 12086
Compressive Creep	–	CC(3/4/10)10				–	TS EN 1606
Maximum Usage Temperature	°C	75				Max.	–

Packaging

Product	Width (cm)	Length (cm)	Thickness (mm)	Unit/Pack	Unit/Pack (m ²)	Volume (m ³)
Graphite Teknopor EPS Thermal Insulation Board	50	100	20	25	12,50	0,25
			25	20	10,00	0,25
			30	16	8,00	0,24
			40	12	6,00	0,24
			50	10	5,00	0,25
			60	8	4,00	0,24
			80	6	3,00	0,24
			100	5	2,50	0,25

Graphite Teknopor Thermal Insulation Values

Density	Thickness	Thermal Conductivity	Thermal Transmittance	Thermal Resistance
kg/m ³	d (mm)	λ (W/mK)	U (W/m ² K)	R (m ² K/W)
14	20	0,032	1,65	0,60
	25	0,032	1,30	0,75
	30	0,032	1,10	0,90
	40	0,032	0,80	1,25
	50	0,032	0,60	1,55
	60	0,032	0,55	1,85
	80	0,032	0,40	2,50
	100	0,032	0,35	3,10

Density	Thickness	Thermal Conductivity	Thermal Transmittance	Thermal Resistance
kg/m ³	d (mm)	λ (W/mK)	U (W/m ² K)	R (m ² K/W)
16*	20	0,031	1,55	0,60
	25	0,031	1,25	0,80
	30	0,031	1,05	0,95
	40	0,031	0,75	1,25
	50	0,031	0,65	1,60
	60	0,031	0,55	1,90
	80	0,031	0,40	2,55
	100	0,031	0,35	3,20

Density	Thickness	Thermal Conductivity	Thermal Transmittance	Thermal Resistance
kg/m ³	d (mm)	λ (W/mK)	U (W/m ² K)	R (m ² K/W)
18*	20	0,031	1,55	0,60
	25	0,031	1,25	0,80
	30	0,031	1,05	0,95
	40	0,031	0,75	1,25
	50	0,031	0,65	1,60
	60	0,031	0,55	1,90
	80	0,031	0,40	2,55
	100	0,031	0,35	3,20

Density	Thickness	Thermal Conductivity	Thermal Transmittance	Thermal Resistance
kg/m ³	d (mm)	λ (W/mK)	U (W/m ² K)	R (m ² K/W)
20*	20	0,031	1,55	0,60
	25	0,031	1,25	0,80
	30	0,031	1,05	0,95
	40	0,031	0,75	1,25
	50	0,031	0,65	1,60
	60	0,031	0,55	1,90
	80	0,031	0,40	2,55
	100	0,031	0,35	3,20

* Densities recommended for use in exterior thermal insulation systems

Certificates



TS EN ISO 9001

TS ISO/IEC 27001

TS EN ISO 14064-1

TEKNOPOR LIGHT FILLER BLOCKS



Technical Specifications

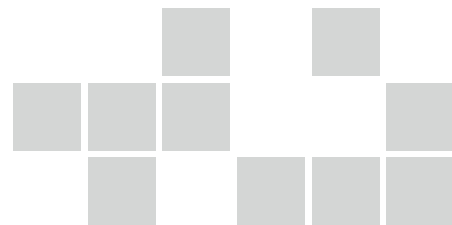
TEKNOPOR LIGHT FILLER BLOCKS						
Specifications	Unit	Definition			Tolerance	Standard
Density	kg/m ³	10	14	16	±1	TS EN 1602
Length and Width	mm	*L3, W3	**L2, W2		*±3 **±2	TS EN 822
Thickness	mm	T2			±2	TS EN 823
Reaction to Fire Class	-	E			-	TS EN 13501-1
Bending Strength	kPa	BS 50	BS 135	BS 150	Min.	TS EN 1607
Compressive Stress at 10% Deformation	kPa	CS(10)30	CS(10)70	CS(10)80	Min.	TS EN 826
Deviation from Squareness	mm/m	Sb5			±5	TS EN 824
Flatness	mm	*P5	**P3		*±5 **±3	TS EN 825
Maximum Usage Temperature	°C	75			-	-

Certificates



*Certificates are valid for Türkiye.

**Certificate is valid for 14 and 16 density values.



TEKNOPOR GEOTEK SUBSURFACE FILLER BLOCKS



Figure 1 Usage that lighten the design load instead of the earth fill used in highways, bridges and approaching ramps.



Figure 2 Prevention of settlement in bridge approach constructions and slope filling on soft soil surface.



Figure 3 Filling for the purpose of protecting underground pipelines, drainage and infrastructure facilities that are exposed to high vertical load.



Figure 4 Filling applications for decreasing lateral seismic loads on retaining structures and foundations.

Technical Specifications

TEKNOPOR GEOTEK SUBSURFACE FILLER BLOCKS						
Specifications	Unit	Definition			Tolerance	Standard
Density	kg/m ³	26	28	30		
Length	mm	L2			±5	TS EN 822
Width	mm	W2			±3	TS EN 822
Thickness	mm	T1			±5	TS EN 823
Reaction to Fire Class	-	E			-	TS EN 13501-1
Bending Strength	kPa	BS 200			Min.	TS EN 12089
Compressive Stress at 10% Deformation	kPa	CS(10)150			Min.	TS EN 826
Deviation from Squareness	mm/m	Sb1			±5	TS EN 824
Flatness	mm/m	P4			±5	TS EN 825
Dimensional Stability Under Specified Temperature and Humidity Conditions	-	DS(23,90)1			± % 1	TS EN 1604
Long Term Water Absorption by Total Immersion	-	WL(T)5			-	TS EN 12087
Maximum Usage Temperature	°C	75			Max.	-

Certificates

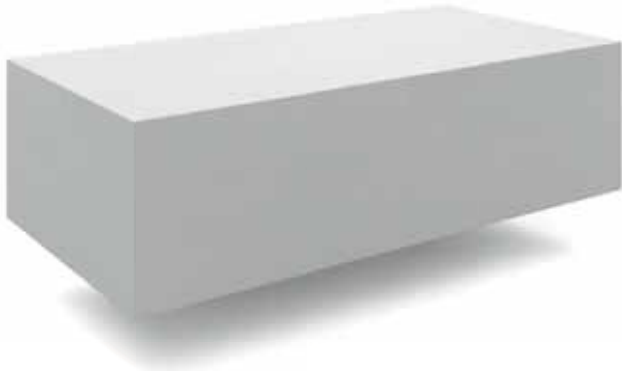


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TS EN ISO 14064-1

TEKNOPOR JAMB BLOCKS



Technical Specifications

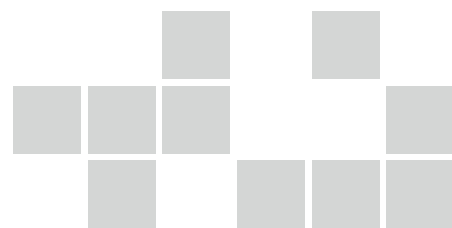
TEKNOPOR JAMB BLOCKS											
Specifications	Unit	Definition								Tolerance	Standard
Density	kg/m ³	16	18	20	22	24	26	28	30		
Length and Width	mm	L2, W2								±2	TS EN 822
Thickness	mm	T2								±2	TS EN 823
Reaction to Fire Class	-	E								-	TS EN 13501-1
Thermal Conductivity (λ)	W/mK	0,038	0,037	0,035	0,035	0,035	0,034	0,034	0,034	Max.	TS EN 12667
Bending Strength	kPa	BS 150	BS 200	BS 200	BS 200	BS 200	BS 250	BS 250	BS 250	Min.	TS EN 12089
Compressive Stress at 10% Deformation	kPa	CS(10)80	CS(10)90	CS(10)100	CS(10)120	CS(10)120	CS(10)150	CS(10)150	CS(10)150	Min.	TS EN 826
Tensile Strength Perpendicular to Faces	kPa	TR 150	TR 180	TR 200	TR 200	TR 200	TR 200	TR 200	TR 200	Min.	TS EN 1607
Deviation from Squareness	mm/m	Sb5								±5	TS EN 824
Flatness	mm	P3								±3	TS EN 825
Dimensional Stability Under Constant Normal Laboratory Conditions	-	DS(N)5								±%0,5	TS EN 1603
Dimensional Stability Under Specified Temperature and Humidity Conditions	-	DS(70,-)1								±%1	TS EN 1604
Long Term Water Absorption by Total Immersion	-	WL(T)3	WL(T)3,5	WL(T)3,5	WL(T)3,5	WL(T)4	WL(T)4	WL(T)4	WL(T)4	-	TS EN 12087
Water Vapour Diffusion Resistance Factor (μ)	-	20-40	30-70	30-70	30-70	30-70	30-70	30-70	30-70	-	TS EN 12086
Compressive Creep	-	CC(3/4/10)10								-	TS EN 1606
Maximum Usage Temperature	°C	75								Max.	-

Certificates

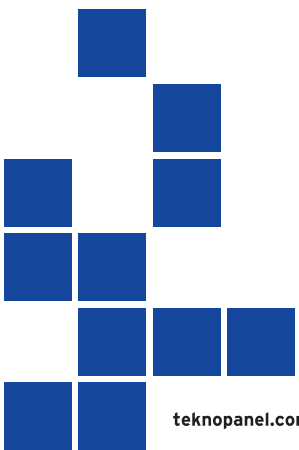
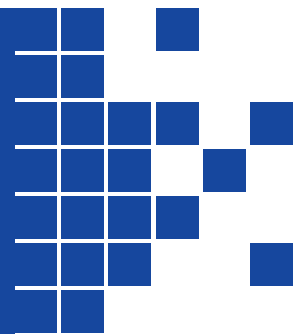
TS EN ISO 9001

TS ISO/IEC 27001

TS EN ISO 14064-1



EXTERIOR THERMAL INSULATION SYSTEMS



TEKNOSİSTEM EXTERIOR THERMAL INSULATION SYSTEM TECHNICAL SPECIFICATIONS

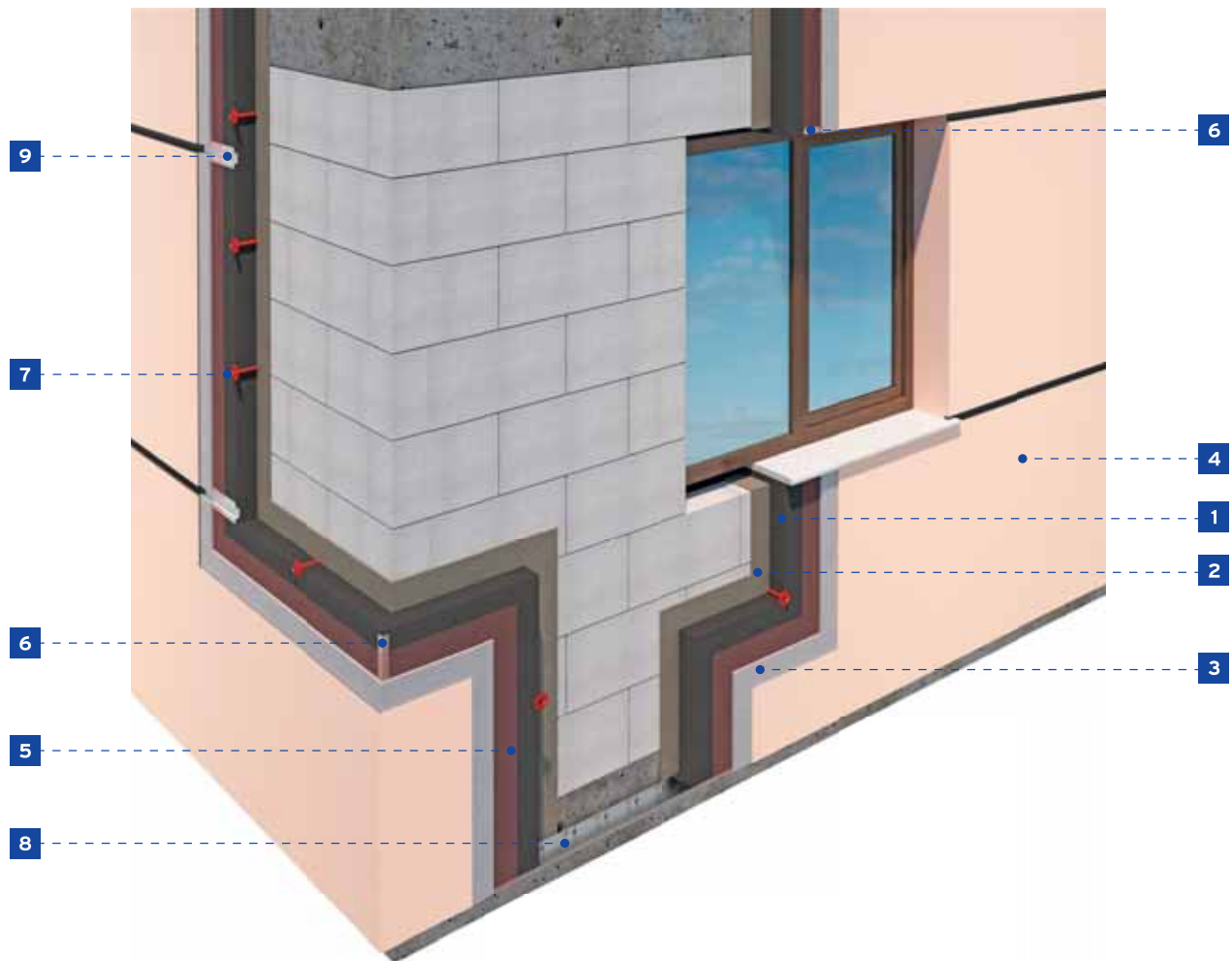
TEKNOSİSTEM EXTERIOR THERMAL INSULATION SYSTEMS				
Specifications	Unit	Definition	Tolerance	Standard
Material Class	-	EPS 80	-	TS EN 13163
Density	kg/m ³	16	± 1	TS EN 1602
Length and Width	mm	L2 - W2	± 2	TS EN 822
Thickness	mm	T2	± 1	TS EN 823
Reaction to Fire Class	-	B	-	TS EN 13501-1
Heat Transmission Resistance (R)	m ² K/W	1	Min.	TS EN 12667/ TS EN 12939
Thermal Conductivity (λ)	W/mK	0,038	Max.	TS EN 12667
Bending Strength	kPa	BS150	Min.	TS EN 12089
Impact Strength	-	I2	-	TS EN 13497
Sinking Strength	-	PE500	-	TS EN 13498
Compressive Stress at 10% Deformation	kPa	CS(10)80	Min.	TS EN 826
Tensile Strength Perpendicular to Faces	kPa	TR150	Min.	TS EN 1607
Deviation from Squareness	mm/m	Sb2	± 2	TS EN 824
Flatness	mm	P4	± 5	TS EN 825
Water Vapour Diffusion Resistance Factor (μ)	-	20-40	-	TS EN 13163
Long Term Water Absorption by Partial Immersion	kg/m ²	0.5	Min.	TS EN 12087
Dimensional Stability Under Constant Normal Laboratory Conditions	-	DS(N)5	± % 0,5	TS EN 1603
Adhesion of Adhesive on EPS Board	kPa	80	Min.	TS EN 13494
Adhesion of Insulation Plaster on EPS Board	kPa	80	Min.	TS EN 13494
Glass-Fiber Mesh Tensile Stress	N/mm	40	Min.	TS EN 13494
Dimensional Stability Under Specified Temperature and Humidity Conditions	-	DS(70,-)1	± % 1	TS EN 1604

Certificates



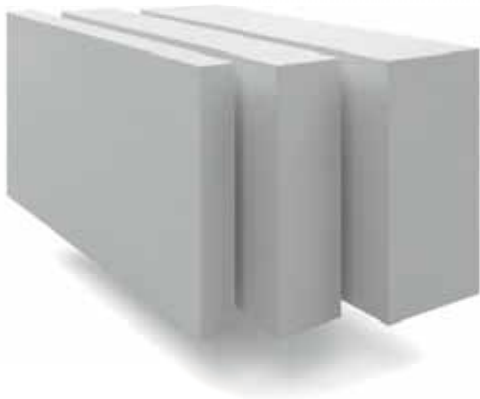
*Certificate is valid for Türkiye.

TEKNOSİSTEM EXTERIOR THERMAL INSULATION SYSTEM COMPONENTS



- 1 Teknosistem Teknopor or Graphite Teknopor EPS Thermal Insulation Board
- 2 Teknosistem Adhesive Mortar
- 3 Teknosistem Plaster Mortar
- 4 Teknosistem Mineral Textured Decorative Plaster
- 5 Teknosistem Glass-Fiber Mesh
- 6 Teknosistem PVC Corner Profile - Meshed
- 7 Teknosistem Wall Plug
- 8 Teknosistem Socle Profile
- 9 Teknosistem Joint Profile

TEKNOSİSTEM TEKNOPOR EPS THERMAL INSULATION BOARD



Technical Specifications

TEKNOPOR EPS THERMAL INSULATION BOARD	
Standard	TS EN 13163
Thermal Conductivity Coefficient	$\leq 0,038$ W/mK
Reaction to Fire Class	E as per TS EN 13501 - 1
Density	16 kg/m ³
Dimensional Stability Under Constant Normal Laboratory Conditions	$\pm 0,5$ DS(N)5
Compressive Stress at 10% Deformation	CS(10)80
Tensile Strength Perpendicular to Faces	TR 150
Long Term Water Absorption by Total Immersion	WL(T)3
Water Vapour Diffusion Resistance Factor (μ)	20-40
Bending Strength	BS 150

Sizes

Length	100 cm
Width	50 cm
Thickness	20-25-30-40-50-60-80-100 mm

Packaging

Product	Width (cm)	Length (cm)	Thickness (mm)	Unit/Pack	Unit/Pack (m ²)	Volume (m ³)
Teknopor EPS Thermal Insulation Board	50	100	20	25	12,50	0,25
			25	20	10,00	0,25
			30	16	8,00	0,24
			40	12	6,00	0,24
			50	10	5,00	0,25
			60	8	4,00	0,24
			80	6	3,00	0,24
			100	5	2,50	0,25

TEKNOSİSTEM GRAPHITE TEKNOPOR EPS THERMAL INSULATION BOARD



Technical Specifications

GRAPHITE TEKNOPOR EPS THERMAL INSULATION BOARD	
Standard	TS EN 13163
Thermal Conductivity Coefficient	≤ 0,031 W/mK
Reaction to Fire Class	E as per TS EN 13501 - 1
Density	16 kg/m ³
Dimensional Stability Under Constant Normal Laboratory Conditions	±%0,5 DS(N)5
Compressive Stress at 10% Deformation	CS(10)60
Tensile Strength Perpendicular to Faces	TR 100
Long Term Water Absorption by Total Immersion	WL(T)3,5
Water Vapour Diffusion Resistance Factor (μ)	20-40
Bending Strength	BS 125

Sizes

Length	100 cm
Width	50 cm
Thickness	20-25-30-40-50-60-80-100 mm

Packaging

Product	Width (cm)	Length (cm)	Thickness (mm)	Unit/Pack	Unit/Pack (m ²)	Volume (m ³)
Graphite Teknopor EPS Thermal Insulation Board	50	100	20	25	12,50	0,25
			25	20	10,00	0,25
			30	16	8,00	0,24
			40	12	6,00	0,24
			50	10	5,00	0,25
			60	8	4,00	0,24
			80	6	3,00	0,24
			100	5	2,50	0,25

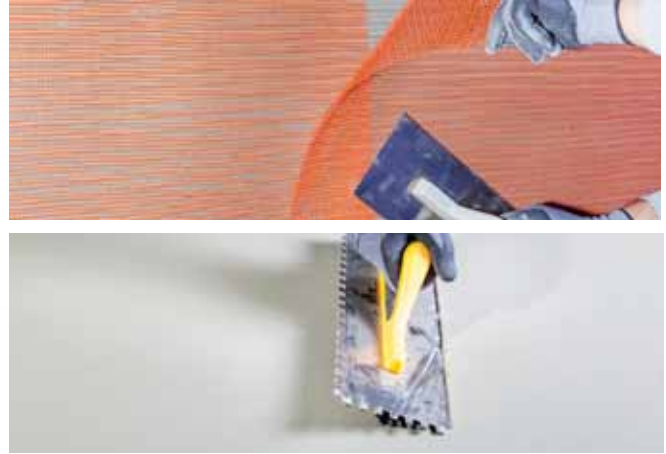
TEKNOSİSTEM ADHESIVE MORTAR



Technical Specifications

Technical Specifications	(+23°C, 50% Relative Humidity)
General Information	
Appearance	Grey-colored powder
Application Tool	Notched trowel, trowel
Shelf Life	12 months in unopened package in dry environment
Package	25 kg kraft bag
Application Information	
Application Temperature	(+5°C)-(+35°C)
Mixture Ratio	25 kg powder / ~5,5-6 lt water
Pot Life	3 hours
Consumption	~4 kg/m ²
Performance Information	
Adhesion Strength on Thermal Insulation Board (TS EN 13494)	Min. 0,08 N/mm ²
Water Absorption (TS EN 12808-5)	30 min. Max. 5gr - 240 min. Max. 10 gr
Bending Strength (TS EN 1015-11)	Min. 2 N/mm ²
Compressive Strength (TS EN 1015-11)	Min. 6 N/mm ²
Adhesion Strength on Bottom Layer (TS EN 1015-12)	Min. 0,5 N/mm ²

TEKNOSİSTEM PLASTER MORTAR



Technical Specifications

Technical Specifications	(+23°C, 50% Relative Humidity)
General Information	
Appearance	Grey-colored powder
Application Tool	Steel trowel
Shelf Life	12 months in unopened package in dry environment
Package	25 kg kraft bag
Application Information	
Application Temperature	(+5°C)-(+35°C)
Mixture Ratio	25 kg powder / ~5,5-6,5 lt water
Pot Life	3 hours
Consumption	~1,7 kg/m ² /mm
Performance Information	
Flexibility	High
Adhesion Strength on Thermal Insulation Board (TS EN 13494)	Min. 0,08 N/mm ²
Water Absorption (TS EN 1015-18)	≤ 0,40 kg/m ² min. 0,5 W1
Bending Strength (TS EN 1015-11)	Min. 2 N/mm ²
Compressive Strength (TS EN 1015-11)	Min. 6 N/mm ² CSIV
Water Vapor Permeability Coefficient (μ) (TS EN 1015-19)	Max. 15
Bond Strength - Shear Form (TS EN 1015-12)	≥ 0,50 N/mm ² /B
Dry Bulk Density (TS EN 1015-10)	1300 ± 150 kg/m ³
Reaction to Fire (TS EN 13501-1)	A1
Hazardous Substances (TS EN 998-1)	Suitable

TEKNOSİSTEM MINERAL TEXTURED DECORATIVE PLASTER



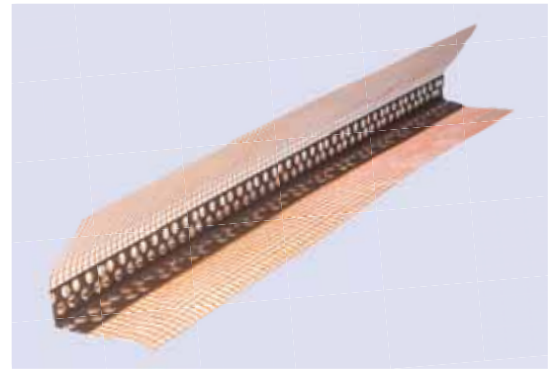
Technical Specifications

Technical Specifications	(+23°C, 50% Relative Humidity)
General Information	
Appearance	White-colored powder
Structure	Cement-based
Shelf Life	12 months in unopened package in dry environment
Package	25 kg kraft bag
Application Information	
Mixture Ratio	25 kg powder / ~5,75-6,5 lt water
Application Tools	Steel and plastic trowel
Consumption	2,4-2,8 kg/m ²
Performance Information	
Service Temperature	(-30°C)-(+80°C)
Compressive Resistance - Class (TS EN 1015-11)	3,5-7,5 N/mm ² - CS III
Bond Strength - Shear Form (TS EN 1015-12)	≥ 0,45 N/mm ² /B
Dry Bulk Density (TS EN 1015-10)	1400 ± 100 kg/m ³
Water Absorption by Capillarity - Class (TS EN 1015-18)	≤ 0,40 kg/m ² min. 0,5 W1
Water Vapor Permeability Coefficient (μ) (TS EN 1745)	5/20 (Table Value)
Thermal Conductivity (TS EN 1745)	≤ 0,47 W/mK (Table Value) P=%50
Reaction to Fire (TS EN 13501-1)	A1
Hazardous Substances (TS EN 998-1)	Suitable

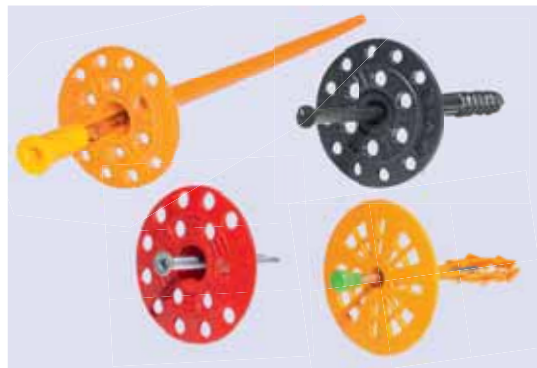
TEKNOSİSTEM GLASS-FIBER MESH



TEKNOSİSTEM PVC CORNER PROFILE-MESHED



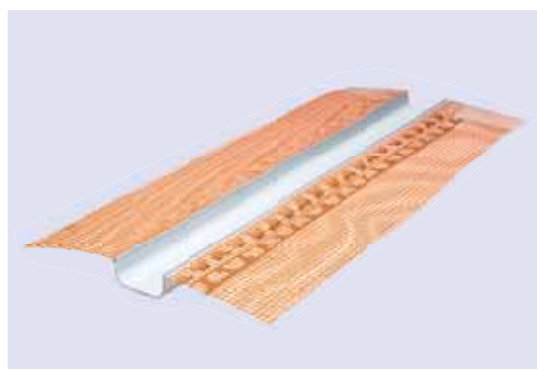
TEKNOSİSTEM WALL PLUG



TEKNOSİSTEM SOCLE PROFILE



TEKNOSİSTEM JOINT PROFILE



TEKNOSİSTEM EXTERIOR THERMAL INSULATION SYSTEM APPLICATION DETAILS

Installation of Teknosistem Socle Profile



Figure 1 In the first step of the application; gaps, indentations, and protrusions between the wall and the Teknosistem Socle Profile are corrected using wedges of varying thicknesses, and the surface is measured with a surface level.



Figure 2 After the leveling process, Teknosistem Socle Profiles are mounted using wall plugs.



Figure 3 The dimensions of the socle profiles, which should be mounted with a gap of 2-3 mm between them, are selected based on the thickness of the thermal insulation board to be used.

Preparation and Application of Teknosistem Adhesive Mortar



Figure 1 If the surface is flat; the adhesive mortar is applied on the whole thermal insulation board with a trowel or suitably notched trowel, using the method for adhering on the whole surface.



Figure 2 If there are level differences or unevenness on the surface, the adhesive mortar is applied as a strip along all edges of the back, and as points in the middle parts, of the thermal insulation board with a trowel, using the method for strip and point application.



Figure 3 While applying adhesive mortar to the back of the insulation board, care is taken to prevent it from overflowing at the edges.

Placement of Teknosistem Teknopor & Graphite Teknopor EPS Thermal Insulation Boards



Figure 1 The thermal insulation board with adhesive mortar is applied to its back should be placed onto the socle profile without any gaps.



Figure 2 Board levels should be checked by straight edge or a water gauge.



Figure 3 Thermal insulation boards are placed without gaps and in zigzag style upwards starting from the bottom of the wall. Boards should be placed in zigzag style on the corners as well.

Application of Wall Plugs on Teknosistem Teknopor & Graphite Teknopor EPS Thermal Insulation Board



Figure 1 Counterboring by using apparatus is needed in order to place the wall plug head completely and to prevent thickness.



Figure 2 The location of the wall plug is drilled. The size of the hole should be 1 cm larger than the size of wall plug.



Figure 3 Wall plugs are placed in the holes, and nails are completely driven.

Application of Teknosistem PVC Corner Profile-Meshed



Figure 1



Figure 2



Figure 3

In exterior thermal insulation system applications, edges and corners of buildings (Figure 1), windows (Figure 2) and sides of doors (Figure 3) are the zones with the highest risk of cracking and mechanical force. Teknosistem Meshed PVC Corner Profiles are used to achieve proper and impact-resistant corners.

Preparation of Teknosistem Plaster Mortar Coats and Application of Glass-Fiber Mesh



Figure 1 After adhering Teknosistem thermal insulation boards and applying wall plugs, two layers of surface plaster is applied. Teknosistem Plaster Mortar prepared is applied homogenously on the surface with a steel trowel.



Figure 2 The glass-fiber mesh should be applied on the first layer of surface plaster when it is still wet by pressing from top to bottom and stretching widely, without folding, and placing at an equal distance from the insulation board to the whole surface. In joints, glass-fiber meshes should always be overlapped for 10 cm.



Figure 3 Application of the second layer of the plaster mortar is completed after waiting for slight dehydration of the first layer depending on weather conditions.

Application of Teknosistem Decorative Plaster and Topcoat



Figure 1 Teknosistem Mineral Textured Decorative Plaster is applied on the surface with trowel.



Figure 2 A plastic trowel is passed over the surface to form a texture before it dries.



Figure 3 Finally, exterior wall lining and painting is applied.



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