

WARM Therm EPS

Product Catalogue



www.warm-international.com



WARM
INTERNATIONAL

WARM THERM EPS



- GRAPHITE ADDITIVE
- HIGH THERMAL INSULATION PERFORMANCE
 $\lambda: 0.031 \text{ W / mK}$ HEAT CONDUCTION COEFFICIENT *
- THERMAL INSULATION SOLUTION FROM FLOOR TO ROOF

**HIGH THERMAL INSULATION
PERFORMANCE**



*This value shows how much heat the material used transmits and the reduced heat the coefficient of transmission indicates that the material has better thermal insulation.



WARM THERM EPS

Description

GREY EPS

Expanded Polystyrene is a lightweight closed cell rigid insulation formed by the expansion of polystyrene beads. EPS has excellent long term thermal and Moisture resistance. EPS insulation is reliable, cost effective and compatible with major construction materials systems.

The product is made of Expanded Polystyrene (EPS) and has a gray thermal insulation panel with Graphite additive. Offers high thermal insulation performance. It offers 20% more heat insulation performance than white EPS thermal insulation panels. Gas harmful to humans and the environment are not used in its production.

Area Of Use

It is used for external insulation of building walls, as well as for thermal insulation applications of insulation in terraces and hipped roofs, cells refrigerating rooms. It is particularly preferred in the passive domestic applications. Conservation Information: Should be stored in a cool and ventilated, not humid environment. Avoid contact with direct sunlight and be near heat sources.



Property

Its gray color is the result of the graphite additive it contains. Thanks to the graphite additive, it absorbs the rays coming from the sun while reflecting them at the same time. Thanks to this feature, it offers better thermal insulation performance than other EPS gray color insulation panels that do not contain graphite. Thanks to its high flexibility, it does not break, does not disintegrate and is easily applied to the wall when cutting.

It does not retain water, it is water repellent characteristic is increased and has a very low water absorption rate. (WL (T) 2 2%). Maintains dimensional stability throughout the life of the building. No gases that are harmful to humans and the environment are used in its production.



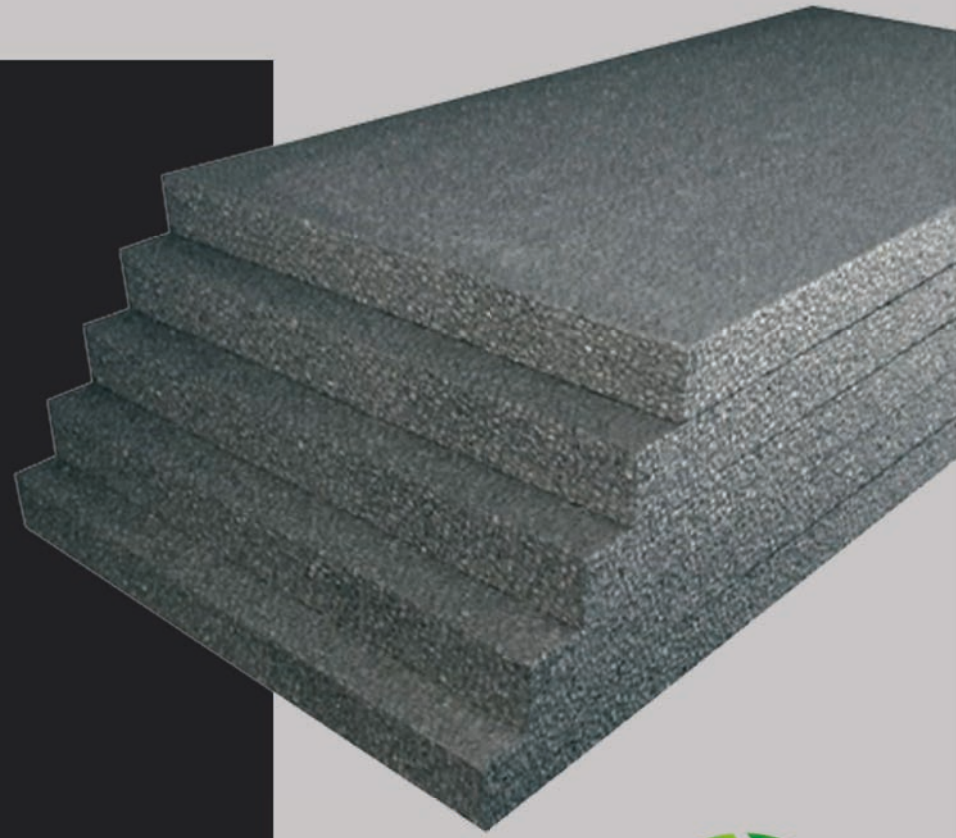


WARM
INTERNATIONAL

WARM THERM EPS

THERMAL INSULATION PANEL - GREY

PRODUCED IN ITALY



Technical specifications

Product type: EPS50, EPS 70, EPS 90
 Graphite-based thermal insulation panel
 Color: Grey
 Thickness: Between 1cm - 20cm
 Dimensions: 50x100 cm
 Edge shape: Straight
 Cellular content: Air 98%, 2% polystyrene
 Packaging: PE nylon



Technical Specifications	EPS 50	Unit	Class	EPS 70	Unit	Class	EPS 90	Unit	Class
Thermal Conductivity:	0,033	W/mK		0,032	W/mK		0,031	W/mK	
Length Tolerance:	2	mm	L(2)	2	mm	L(2)	2	mm	L(2)
Width Tolerance:	2	mm	W(2)	2	mm	W(2)	2	mm	W(2)
Thickness Tolerance:	1	mm	T(1)	1	mm	T(1)	1	mm	T(1)
Miter Deviation Tolerance:	2	mm	S(2)	2	mm	S(2)	2	mm	S(2)
Surface Smoothness Tolerance:	4	mm	P(4)	4	mm	P(4)	4	mm	P(4)
Dimensional Stability	0,5	%	DS(N)5	0,5	%	DS(N)5	0,5	%	DS(N)5
At Certain Temperature and Relative Humidity Conditions Dimensional Stability:	1	%	DS(23/90)1	1	%	DS(23/90)1	1	%	DS(23/90)1
Compressive stress at 10% deformation:	50	kPa		70	kPa		90	kPa	
Bending strength:	75	kPa	BS75	115	kPa	BS115	135	kPa	BS135
Thermal Resistance:	1,50	m ² K/W		1,55	m ² K/W		1,60	m ² K/W	
Long Term Water Absorption with Partial Immersion:	2	%	WL(T) 2	2	%	WL(T) 2	2	%	WL(T) 2
Response to Fire Class: (TS EN 13163-2012)	E			E			E		



WARM
INTERNATIONAL

WARM THERM EPS

Description

WHITE EPS

Expanded Polystyrene is a lightweight closed cell rigid insulation formed by the expansion of polystyrene beads. EPS has excellent long term thermal and Moisture resistance. EPS insulation is reliable, cost effective and compatible with major construction materials systems.

The product is made of Expanded Polystyrene (EPS) and has a white thermal insulation panel. Offers high thermal insulation performance. Gas harmful to humans and the environment are not used in its production.

Area Of Use

It is used for external insulation of building walls, as well as for thermal insulation applications of insulation in terraces and hipped roofs, cells refrigerating rooms. It is particularly preferred in the passive domestic applications. Conservation Information: Should be stored in a cool and ventilated, not humid environment. Avoid contact with direct sunlight and be near heat sources.



Property

Thanks to its high flexibility, it does not break, does not disintegrate and is easily applied to the wall when cutting.

It does not retain water, it is water repellent characteristic is increased and has a very low water absorption rate. (WL (T) 2 2%). Maintains dimensional stability throughout the life of the building. No gases that are harmful to humans and the environment are used in its production.



WARM
INTERNATIONAL



WARM THERM EPS

Thermal insulation panel - White

PRODUCT DATA

Technical specifications

Product type: EPS 50, EPS 80, EPS 100, EPS 120
 White thermal insulation panel
 Color: White
 Thickness: Between 1cm - 20cm
 Dimensions: 50x100 cm
 Edge shape: Straight
 Cellular content: Air 98%, 2% polystyrene
 Packaging: PE nylon

Technical Specifications White	EPS 50	Unit	Class	EPS 80	Unit	Class	EPS 100	Unit	Class	EPS 120	Unit	Class
Thermal Conductivity:	0,04	W/mK		0,039	W/mK		0,036	W/mK		0,035	W/mK	
Length Tolerance:	2	mm	L(2)	2	mm	L(2)	2	mm	L(2)	2	mm	L(2)
Width Tolerance:	2	mm	W(2)	2	mm	W(2)	2	mm	W(2)	2	mm	W(2)
Thickness Tolerance:	1	mm	T(1)	1	mm	T(1)	1	mm	T(1)	1	mm	T(1)
Miter Deviation Tolerance:	2	mm	S(2)	2	mm	S(2)	2	mm	S(2)	2	mm	S(2)
Surface Smoothness Tolerance:	4	mm	P(4)	4	mm	P(4)	4	mm	P(4)	4	mm	P(4)
Dimensional Stability	0,5	%	DS(N)5	0,5	%	DS(N)5	0,5	%	DS(N)5	0,5	%	DS(N)5
At Certain Temperature and Relative Humidity Conditions Dimensional Stability:	1	%	DS(23/90)1	1	%	DS(23/90)1	1	%	DS(23/90)1	1	%	DS(23/90)1
Compressive stress at 10% deformation:	50	kPa		80	kPa		100	kPa		120	kPa	
Bending strength:	75	kPa	BS75	125	kPa	BS125	150	kPa	BS150	170	kPa	BS170
Thermal Resistance:	1,25	m ² K/W		1,25	m ² K/W		1,35	m ² K/W		1,40	m ² K/W	
Long Term Water Absorption with Partial Immersion:	2	%	WL(T) 2	2	%	WL(T) 2	2	%	WL(T) 2	2	%	WL(T) 2
Response to Fire Class: (TS EN 13163-2012)	E			E			E			E		



WARM
INTERNATIONAL



WARM INTERNATIONAL

A1: VIA FRATELLI DI DIO 2/C, 20063-CERNUSO SUL NAVIGLIO MILANO/ITALY

T: +39 328 756 5612

A2: GEVHERNESIBE GÜR ST. No:70/10 KAYSERİ/TURKEY

T: +90 850 255 0 546

info@warm-international.com

www.warm-international.com



ATTESTATO DI CONFORMITÀ ATTESTATION OF CONFORMITY

CPR-22-1030-00-00

RICHIEDENTE/COSTRUTTORE
APPLICANT MANUFACTURER

WARM INTERNATIONAL Dış Ticaret Ltd. Şti.
Gevhernesibe Mah. Gür Sk. 10/70 - Kocasinan / KAYSERİ - Turkey

NOME COMMERCIALE
TRADE MARK

WARM THERM EPS INSULATION PANEL

DESCRIZIONE PRODOTTO
PRODUCT DESCRIPTION

Pannello isolante in polistirene espanso (EPS)

Rif. RELAZIONE TECNICA
Ref. TECHNICAL REPORT

SQM_128_2022 del 02-03-2022

edita dal Laboratorio CertiMaC – Certificazione Materiali da Costruzione

DATA PRIMA EMISSIONE
FIRST ISSUE DATE

14/03/2022

La fabbricazione del prodotto da costruzione sotto riportato e l'asserzione ambientale autodichiarata redatta dal fabbricante in riferimento alla norma UNI EN ISO 14021:2016, sono state sottoposte, con esito positivo, alle verifiche del contenuto di materiale riciclato di origine pre-consumer e post-consumer. Il prodotto risulta quindi rispondente ai requisiti del D.M. 11 ottobre 2017 (decreto CAM).

Attestato di Verifica dell'asserzione ambientale autodichiarata*	PRODOTTO NOME COMMERCIALE	Contenuto di materiale riciclato del prodotto %		
		Totale	Pre-Consumer	Post-Consumer
SQM_129_2022 del 02-03-2022	WARM THERM EPS INSULATION PANEL Pannello isolante in polistirene espanso (EPS)	10,0%	10,0%	0,0%

*Le attestazioni di verifica dell'asserzione ambientale autodichiarata sono state realizzate dal Laboratorio CertiMaC Scarl e verificate e convalidate da MTIC INTERCERT in qualità di organismo di terza.

Il Direttore Tecnico,
Dr. Ing. Giovanni Vita

MTIC InterCert S.r.l.

Sede Legale / Registered site: Via Leopardi, 14 – 20123 MILANO (MI) ITALY - Sede operativa / Headquarter: Via Moscova, 11 - 20017 RHO (MI) ITALY
Tel. +39.02.97071.800 - Fax +39.02.930.8176 - info@mtic-group.org – www.mtic-group.org
Capitale Sociale Euro 26.000,00 I.V. – C.F./P.IVA/n. registrazione Reg. Impr. 00862210150 - R.E.A. Milano 798508