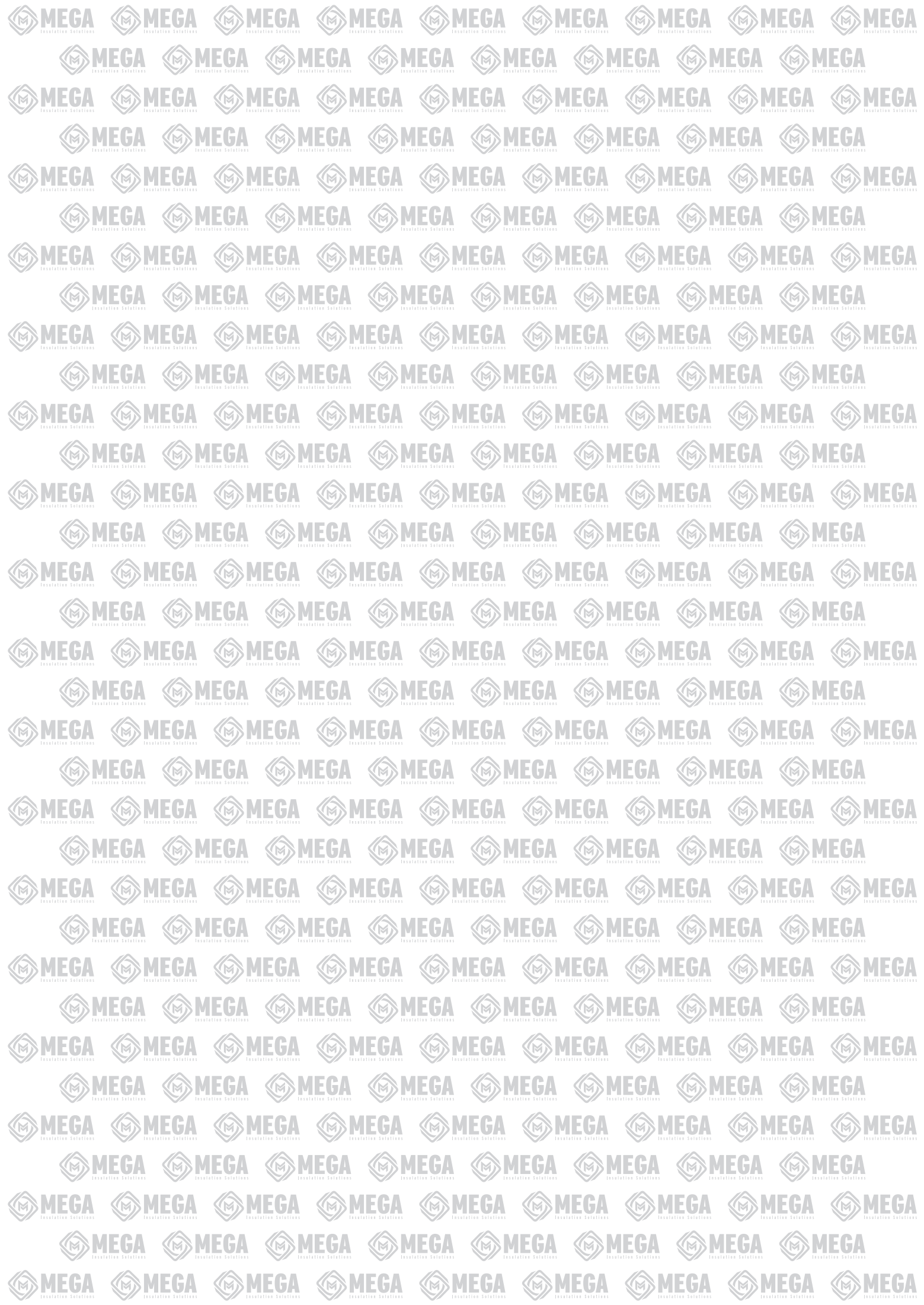


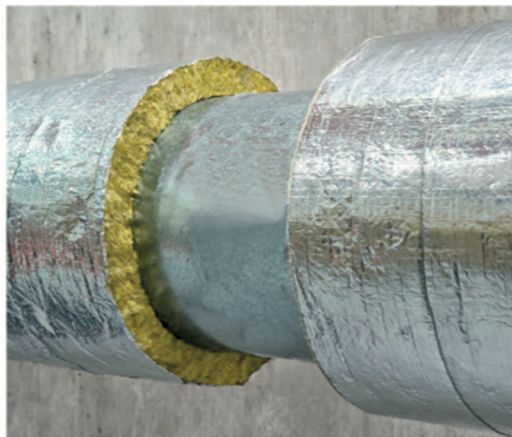
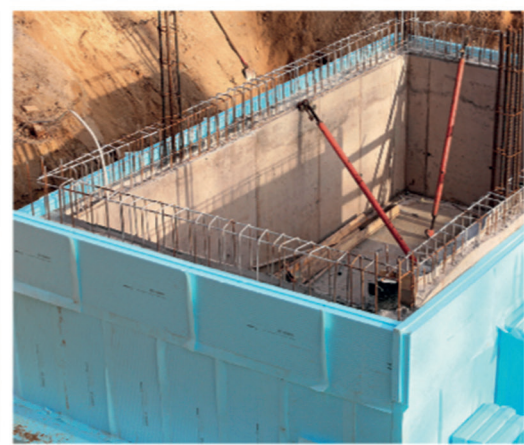
# Energize Your Life

PRODUCT CATALOGUE



[megainsulation.com.tr](http://megainsulation.com.tr)





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# About Us

Mega Insulation Solutions, which is the innovative brand of Turkish insulation sector, produces in a total area of 158,000 m<sup>2</sup>, of which 55,000 m<sup>2</sup> is closed and 103.000 m<sup>2</sup> is open area. As a respected, reliable and strong brand, Mega has reached 40,000 tons/year Stone Wool, 200,000 m<sup>3</sup>/year XPS, 350,000 m<sup>3</sup>/year EPS production capacities. Mega is one of the leading players in its sector in terms of its rich product range and production capacity.

As a respected, reliable and strong brand, Mega has reached 40,000 tons/year stone wool, 200,000 m<sup>3</sup>/year XPS, 350,000 m<sup>3</sup>/year EPS production capacities. Mega is one of the leading players in its sector in terms of its rich product range and production capacity.

Mega, which is one of the two companies producing Stone Wool, XPS and EPS together in our country, exports to 25 countries.



## Mega Insulation Solutions - Stone Wool Production Facility

Closed Area 40.000 m<sup>2</sup> / Open Area 116.000 m<sup>2</sup> / Production Capacity 40.000 tons/year



## Mega Insulation Solutions - XPS ve EPS Production Facility

Closed Area 15.000 m<sup>2</sup> / Open Area 42.000 m<sup>2</sup>

Production Capacity 200.000 m<sup>3</sup>/year - XPS / Production Capacity 300.000 m<sup>3</sup>/year - EPS

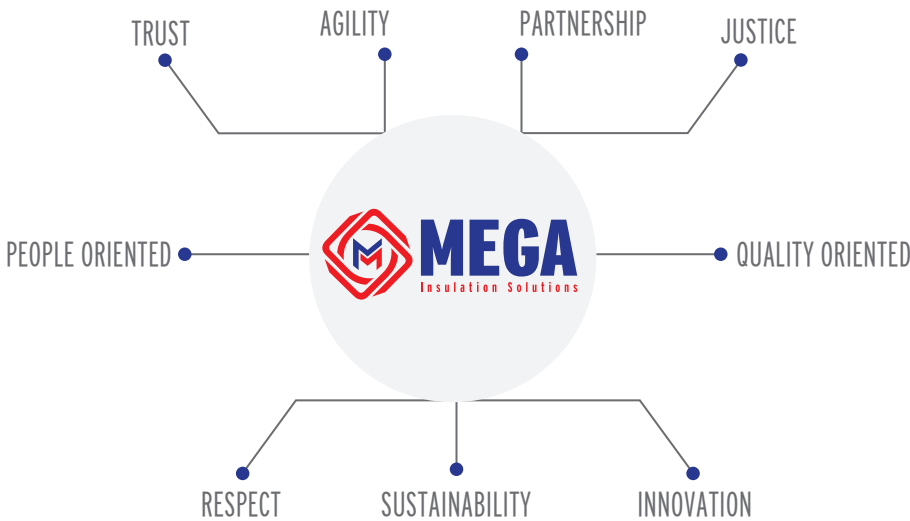
# Our Vision

Being a global insulation solutions company that leads the sector with its sustainable and innovative practices.

# Our Mission

To create sustainable value by increasing the life quality of all its stakeholders in the insulation sector with its reliable solutions that respect nature and people.

# Our Values



# Our Quality Line

Mega Insulation Solutions Family, with its expert staff, cares about customer needs from raw material to distribution and offers high quality, reliable and easy to apply products. Mega has adopted the principle of “continuous improvement” by fulfilling the requirements of the Quality Management System Standard on the way to being the pioneer of the sector.

We are proud of maintaining all our works and investments with a focus on quality, and proving our quality to the world with the documents we receive from national and international certification institutions.





**MEGA**  
Insulation Solutions



**“Energize Your Life”**



# StoneWool®

Stone Wool Insulation Systems





**MEGA**  
Insulation Solutions

**"Energize Your Life"**

**İZOLASYON LEVHASI INSULATION BOARD**

**StoneWool®**  
Stone Wool Insulation Systems

- Yüksek sıcaklıklarda dayanıklıdır, bu nedenle yüksek sıcaklıklarda kullanılabilir.
- Yüksek ses emilimi sağlar ve ses kirliliğini azaltır.
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**MEGA**  
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Insulation Solutions

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MEGA YATILIM DÜZENLİ PAZARLAMA DİŞ. TİC. A.Ş.  
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## WHAT IS STONE WOOL?

Stone wool is produced by melting volcanic rocks which are rich in minerals and has superior chemical properties, at very high temperatures and turning them into fibers.

Stone wool provides thermal, sound and fire insulation. Stone wool is a mostly preferred material because of its quality, durability and wide usage areas in insulation.

## HOW IS STONE WOOL PRODUCED?

Stone wool is formed by melting the basalt stone, which is a volcanic rock, at 1350 °C - 1400 °C and turning it into a fiber. Fiber formed basalt, can be formed as blankets, boards and pipes in various sizes.

Stone wool provides fire safety, along with thermal insulation, sound insulation and acoustic regulation. The low thermal conductivity value of stone wool makes it a good thermal insulation material.

The thermal conductivity value ranges from approximately 0.035 - 0.040 W/mK. Usage temperature is in the range of -50/+750°C.

## WHAT ARE THE AREAS OF USE?

**Thermal Insulation:** It provides thermal insulation up to 90% since stone wool thermal conductivity declared value (10 °C) is between  $0,035 \leq \lambda \leq 0,040$  W/mK.

**Fire Insulation:** Stone wool, usage temperature is in the range of -50 / + 750 °C. According to TS EN 13501-1, it is in A1 class, which is non-combustible materials.

**Sound Insulation:** Stone wool is the best insulation materials that absorb sound and is used especially in acoustic arrangements. It provides sound insulation between 40-90% according to EN ISO standards.

**Moisture Insulation:** Stone wool does not corrode and rust, so it is durable for many years, does not rot, mold or deteriorate.

## What are the General Features and Advantages?

Stone wool is naturally strong and durable. Stone wool retains its shape and hardness thanks to its physical structure; It is not affected by temperature and humidity changes and shows dimensional stability. It maintains its insulation performance for long years.

Stone wool is a successful product in terms of thermal performance. The thermal properties that keep the heat outside in hot climates and inside in the cold regions come from small air vesicles trapped in the physical structure of the stone wool. Another feature that keeps stone wool superior to other materials is the reduction in the need for fossil fuels. Its ecological benefit stands out once again by preventing problems such as climate change. It has a reducing effect on carbon dioxide and carbon monoxide emissions. It also reduces the energy consumption of air conditioners, which are widely used in the summer season.



The dimensions of the stone wool do not vary depending on the temperature. Stone wool fibers having homogeneous structure have excellent mechanical properties and constant dimensional stability. In areas where stone wool insulation is preferred, vibration and sound energy are converted to heat energy. The vibrations are completely inactivated by obtaining this material from countless transitive fibers. Due to this quality fibrous structure, it is considered one of the best sound absorbing insulation materials in the construction area.

# Mega Insulation Solutions

## StoneWool

### MEGA SW F150

### FACADE BOARD



Mega Insulation Stone Wool Facade Board is a uncoated stone wool board that is produced in accordance with TS EN 13500 and specially according to TS EN 13162 standard and is used in plastered exterior insulation systems for heat, sound insulation and fire safety.

## Usage Areas

Used in plastered exterior insulation systems for thermal, sound insulation and fire safety.

Mega Insulation Stone Wool Contact Facade System; It provides reduction of thermal losses and gains, thermal comfort, noise prevention, fire safety and condensation prevention.

## Stock and Storage Conditions

- If possible, the materials should be stacked in a closed environment on low slope, protected from water, on wooden pallets. Pallets should not be stacked over each other
- If it is to be stacked in an open environment, a nylon cover (that will not cut the air flow and form a pool, but also will be waterproof), will be placed over the materials to protect it from water. Sheets should be protected from the sun as well as protected from water.
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# Mega Insulation Solutions

## StoneWool

### MEGA SW F150

### FACADE BOARD



Ürünün Tipi / Kullanım Alanı Product Type / Usage Area	Mantolama Levhası - MEGA SW F150 Etics Board - MEGA SW F150											
Özellikler Features	Standart Gösterim Standard Impression	Beyan Sembolü Declaration Symbol	Birim Unit	Beyan Değeri Declaration Value							Tolerans Tolerance	Ref. Standart Ref. Standard
Malzeme Material	MW	MW	-	Taşyünü / Stonewool							-	TS EN 13162
Yoğunluk Density	$\rho$	-	kg/m <sup>3</sup>	150							±% 10	TS EN 1602
Uzunluk Length	l	l	mm	1200							± %2	TS EN 822
Genişlik Width	b	b	mm	600							± %1,5	TS EN 822
Boyutsal Kararlılık Dimensional Stability	$\Delta\epsilon_a$	DS(70-)	%	max 1							-	TS EN 1604
Su Buharı Geçirgenliği Water Vapor Transmission	$\mu$	MU	-	1							-	TS EN 12086
Yanmazlık Sınıfı / Yangına Tepki Non-combustibility Class / Reaction Fire	RF	-	-	A1							-	TS EN 13501
Kalınlık Thickness	dN	dN	mm	40	50	60	70	80	100	120	-	TS EN 823
Kalınlık Sınıfı Thickness Class	-	Ti	mm	T4							-%3 veya -3 mm* +%5 veya +5 mm* -%3 or -3 mm* +%5 or +5 mm*	
Isıl İletkenlik Beyan Değeri (10 °C) Declaration Value (10 °C)	-	$\lambda_D$	W/mK	max 0,037							-	TS EN 12939/12667
Isıl Direnç Beyan Değeri Thermal Resistance Declaration Value	-	R <sub>D</sub>	m <sup>2</sup> K/W	1,05	1,35	1,60	1,85	2,15	2,70	3,20	-	TS EN 13162
Düzlemsellik / Yüzey Düzgünlüğü Planarity / Surface Smoothness	S <sub>max</sub>	S <sub>max</sub>	mm	S6 - max 6 mm							-	TS EN 825
Gönyeden Sapma Deviation from squareness	S <sub>b</sub>	S <sub>b</sub>	mm/m	S5 - max 5 mm/m							-	TS EN 824
Kısa Süreli Su Absorpsiyonu Short-term Water Absorption	WS	W <sub>P</sub>	kg/m <sup>2</sup>	≤1							-	TS EN 1609
Uzun Süreli Su Absorpsiyonu Long-term Water Absorption	WL(P)	W <sub>LP</sub>	kg/m <sup>2</sup>	≤3							-	TS EN 12087
Max. Kullanım Sıcaklığı Max. Usage Temperature	-	-	°C	+750							-	-
Basma Mukavemeti Compression Strength	$\sigma_{10}$	CS(10/Y)i	kPa	min. 40		min. 45		min. 55			-	TS EN 826
Yüzeyle Dik Çekme Tensile Strength Perpendicular to Surface	$\sigma_{mt}$	TRi	kPa	min. 10							-	TS EN 1607
Ambalaj Malzemesi Packing Material	-	-	-	PE Film							-	-

# Mega Insulation Solutions

## StoneWool

### MEGA SW ULTRA+F

### FACADE BOARD



Mega Insulation Stone Wool Facade Board is a uncoated stone wool board that is produced in accordance with TS EN 13500 and specially according to TS EN 13162 standard and is used in plastered exterior insulation systems for heat, sound insulation and fire safety.

## Usage Areas

Used in plastered exterior insulation systems for thermal, sound insulation and fire safety.

Mega Insulation Stone Wool Contact Facade System; It provides reduction of thermal losses and gains, thermal comfort, noise prevention, fire safety and condensation prevention.

## Stock and Storage Conditions

- If possible, the materials should be stacked in a closed environment on low slope, protected from water, on wooden pallets. Pallets should not be stacked over each other
- If it is to be stacked in an open environment, a nylon cover (that will not cut the air flow and form a pool, but also will be waterproof), will be placed over the materials to protect it from water. Sheets should be protected from the sun as well as protected from water.
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# Mega Insulation Solutions

## StoneWool

### MEGA SW ULTRA+F

### FACADE BOARD



Ürünün Tipi / Kullanım Alanı Product Type / Usage Area	Mantolama Levhası - MEGA SW ULTRA+F Etics Board - MEGA SW ULTRA+F												
Özellikler Features	Standart Gösterim Standard Impression	Beyan Sembolü Declaration Symbol	Birim Unit	Beyan Değeri Declaration Value								Tolerans Tolerance	Ref. Standart Ref. Standard
Malzeme Material	MW	MW	-	Taşyünü / Stonewool								-	TS EN 13162
Uzunluk Length	l	l	mm	1200								± %2	TS EN 822
Genişlik Width	b	b	mm	600								± %1,5	TS EN 822
Boyutsal Kararlılık Dimensional Stability	Δε <sub>a</sub>	DS(70-)	%	max 1								-	TS EN 1604
Su Buharı Geçirgenliği Water Vapor Transmission	μ	MU	-	1								-	TS EN 12086
Yanmazlık Sınıfı / Yangına Tepki Non-combustibility Class / Reaction Fire	RF	-	-	A1								-	TS EN 13501
Kalınlık Thickness	d <sub>N</sub>	d <sub>N</sub>	mm	40	50	60	70	80	100	120	-	TS EN 823	
Kalınlık Sınıfı Thickness Class	-	T <sub>i</sub>	mm	T4									-%3 veya -3 mm* +%6 veya +5 mm* -%3 or -3 mm* +%6 or +5 mm*
Isıl İletkenlik Beyan Değeri (10 °C) Declaration Value (10 °C)	-	λ <sub>D</sub>	W/mK	max 0,037								-	TS EN 12939/12667
Isıl Direnç Beyan Değeri Thermal Resistance Declaration Value	-	R <sub>D</sub>	m <sup>2</sup> K/W	1,05	1,35	1,60	1,85	2,15	2,70	3,20	-	TS EN 13162	
Düzlemsellik / Yüzey Düzgünlüğü Planarity / Surface Smoothness	S <sub>max</sub>	S <sub>max</sub>	mm	S6								±6	TS EN 825
Gönyeden Sapma Deviation from squareness	S <sub>b</sub>	S <sub>b</sub>	mm/m	S5								±5	TS EN 824
Kısa Süreli Su Absorpsiyonu Short-term Water Absorption	WS	W <sub>P</sub>	kg/m <sup>2</sup>	≤1								-	TS EN 1609
Uzun Süreli Su Absorpsiyonu Long-term Water Absorption	WL(P)	W <sub>L,P</sub>	kg/m <sup>2</sup>	≤3								-	TS EN 12087
Max. Kullanım Sıcaklığı Max. Usage Temperature	-	-	°C	+750								-	-
Basma Mukavemeti Compression Strength	σ <sub>10</sub>	CS(10/Y) <sub>i</sub>	kPa	min. 30		min. 35		min. 40		-		TS EN 826	
Yüzelere Dik Çekme Tensile Strength Perpendicular to Surface	σ <sub>mt</sub>	TR <sub>i</sub>	kPa	min. 7,5								-	TS EN 1607
Ambalaj Malzemesi Packing Material	-	-	-	PE Film								-	-
Kaplama Facing	-	-	-	Kaplamasız / Unfaced								-	-

# Mega Insulation Solutions

## StoneWool

### MEGA SW F120

### FACADE BOARD



Mega Insulation Stone Wool Facade Board is a uncoated stone wool board that is produced in accordance with TS EN 13500 and specially according to TS EN 13162 standard and is used in plastered exterior insulation systems for heat, sound insulation and fire safety.

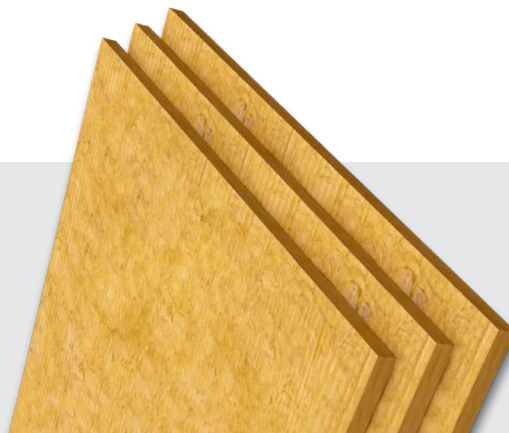
## Usage Areas

Used in plastered exterior insulation systems for thermal, sound insulation and fire safety.

Mega Insulation Stone Wool Contact Facade System; It provides reduction of thermal losses and gains, thermal comfort, noise prevention, fire safety and condensation prevention.

## Stock and Storage Conditions

- If possible, the materials should be stacked in a closed environment on low slope, protected from water, on wooden pallets. Pallets should not be stacked over each other
- If it is to be stacked in an open environment, a nylon cover (that will not cut the air flow and form a pool, but also will be waterproof), will be placed over the materials to protect it from water. Sheets should be protected from the sun as well as protected from water.
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# Mega Insulation Solutions

## StoneWool

### MEGA SW F120

### FACADE BOARD



Ürünün Tipi / Kullanım Alanı Product Type / Usage Area	Mantolama Levhası - MEGA SW F120 Etics Board - MEGA SW F120											
Özellikler Features	Standart Gösterim Standard Impression	Beyan Sembolü Declaration Symbol	Birim Unit	Beyan Değeri Declaration Value							Tolerans Tolerance	Ref. Standart Ref. Standard
Malzeme Material	MW	MW	-	Taşyünü / Stonewool							-	TS EN 13162
Yoğunluk Density	$\rho$	-	kg/m <sup>3</sup>	120							±% 10	TS EN 1602
Uzunluk Length	l	l	mm	1200							± %2	TS EN 822
Genişlik Width	b	b	mm	600							± %1,5	TS EN 822
Boyutsal Kararlılık Dimensional Stability	$\Delta\epsilon_a$	DS(70-)	%	max 1							-	TS EN 1604
Su Buharı Geçirgenliği Water Vapor Transmission	$\mu$	MU	-	1							-	TS EN 12086
Yanmazlık Sınıfı / Yangına Tepki Non-combustibility Class / Reaction Fire	RF	-	-	A1							-	TS EN 13501
Kalınlık Thickness	dN	dN	mm	40	50	60	70	80	100	120	-	TS EN 823
Kalınlık Sınıfı Thickness Class	-	Ti	mm	T4							-%3 veya -3 mm* +%5 veya +5 mm* -%3 or -3 mm* +%5 or +5 mm*	
Isıl İletkenlik Beyan Değeri (10 °C) Declaration Value (10 °C)	-	$\lambda_D$	W/mK	max 0,037							-	TS EN 12939/12667
Isıl Direnç Beyan Değeri Thermal Resistance Declaration Value	-	R <sub>D</sub>	m <sup>2</sup> K/W	1,05	1,35	1,60	1,85	2,15	2,70	3,20	-	TS EN 13162
Düzlemsellik / Yüzey Düzgünlüğü Planarity / Surface Smoothness	S <sub>max</sub>	S <sub>max</sub>	mm	S6 - max 6 mm							-	TS EN 825
Gönyeden Sapma Deviation from squareness	S <sub>b</sub>	S <sub>b</sub>	mm/m	S5 - max 5 mm/m							-	TS EN 824
Kısa Süreli Su Absorpsiyonu Short-term Water Absorption	WS	W <sub>P</sub>	kg/m <sup>2</sup>	≤1							-	TS EN 1609
Uzun Süreli Su Absorpsiyonu Long-term Water Absorption	WL(P)	W <sub>LP</sub>	kg/m <sup>2</sup>	≤3							-	TS EN 12087
Max. Kullanım Sıcaklığı Max. Usage Temperature	-	-	°C	+750							-	-
Basma Mukavemeti Compression Strength	$\sigma_{10}$	CS(10/Y)i	kPa	min. 30							-	TS EN 826
Yüzeyle Dik Çekme Tensile Strength Perpendicular to Surface	$\sigma_{mt}$	TRi	kPa	min. 10							-	TS EN 1607
Ambalaj Malzemesi Packing Material	-	-	-	PE Film							-	-
Kaplama Facing	-	-	-	Kaplmalı ve Kaplamasız / Faced and Unfaced							-	-



# Mega Insulation Solutions

## StoneWool

### MEGA SW PLUS+F

### FACADE BOARD



Mega Insulation Stone Wool Facade Board is a uncoated stone wool board that is produced in accordance with TS EN 13500 and specially according to TS EN 13162 standard and is used in plastered exterior insulation systems for heat, sound insulation and fire safety.

## Usage Areas

Used in plastered exterior insulation systems for thermal, sound insulation and fire safety.

Mega Insulation Stone Wool Contact Facade System; It provides reduction of thermal losses and gains, thermal comfort, noise prevention, fire safety and condensation prevention.

## Stock and Storage Conditions

- If possible, the materials should be stacked in a closed environment on low slope, protected from water, on wooden pallets. Pallets should not be stacked over each other
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# Mega Insulation Solutions

## StoneWool

### MEGA SW PLUS+F

### FACADE BOARD



Ürünün Tipi / Kullanım Alanı Product Type / Usage Area	Mantolama Levhası - MEGA SW PLUS+F Etics Board - MEGA SW PLUS+F											
Özellikler Features	Standart Gösterim Standard Impression	Beyan Sembolü Declaration Symbol	Birim Unit	Beyan Değeri Declaration Value							Tolerans Tolerance	Ref. Standart Ref. Standard
Malzeme Material	MW	MW	-	Taşyünü / Stonewool							-	TS EN 13162
Uzunluk Length	l	l	mm	1200							± %2	TS EN 822
Genişlik Width	b	b	mm	600							± %1,5	TS EN 822
Boyutsal Kararlılık Dimensional Stability	$\Delta\epsilon_a$	DS(70-)	%	max 1							-	TS EN 1604
Su Buharı Geçirgenliği Water Vapor Transmission	$\mu$	MU	-	1							-	TS EN 12086
Yanmazlık Sınıfı / Yangına Tepki Non-combustibility Class / Reaction Fire	RF	-	-	A1							-	TS EN 13501
Kalınlık Thickness	d <sub>N</sub>	d <sub>N</sub>	mm	40	50	60	70	80	100	120	-	TS EN 823
Kalınlık Sınıfı Thickness Class	-	T <sub>i</sub>	mm	T4							-%3 veya -3 mm* +%6 veya +5 mm* -%3 or -3 mm* +%6 or +5 mm*	
Isıl İletkenlik Beyan Değeri (10 °C) Declaration Value (10 °C)	-	$\lambda_D$	W/mK	max 0,037							-	TS EN 12939/12667
Isıl Direnç Beyan Değeri Thermal Resistance Declaration Value	-	R <sub>D</sub>	m <sup>2</sup> K/W	1,05	1,35	1,60	1,85	2,15	2,70	3,20	-	TS EN 13162
Düzlemsellik / Yüzey Düzgünlüğü Planarity / Surface Smoothness	S <sub>max</sub>	S <sub>max</sub>	mm	S6							6 mm	TS EN 825
Gönyeden Sapma Deviation from squareness	S <sub>b</sub>	S <sub>b</sub>	mm/m	S5							5 mm	TS EN 824
Kısa Süreli Su Absorpsiyonu Short-term Water Absorption	WS	W <sub>P</sub>	kg/m <sup>2</sup>	≤1							-	TS EN 1609
Uzun Süreli Su Absorpsiyonu Long-term Water Absorption	WL(P)	W <sub>L,P</sub>	kg/m <sup>2</sup>	≤3							-	TS EN 12087
Max. Kullanım Sıcaklığı Max. Usage Temperature	-	-	°C	+750							-	-
Basma Mukavemeti Compression Strength	$\sigma_{10}$	CS(10/Y) <sub>i</sub>	kPa	min. 25							-	TS EN 826
Yüzeyle Dik Çekme Tensile Strength Perpendicular to Surface	$\sigma_{mt}$	TR <sub>i</sub>	kPa	min. 7,5							-	TS EN 1607
Ambalaj Malzemesi Packing Material	-	-	-	PE Film							-	-
Kaplama Facing	-	-	-	Kaplamasız / Unfaced							-	-

# Mega Insulation Solutions

## StoneWool

MEGA SW-35L  
FACADE BOARD



Mega Insulation Stone Wool Facade Board is a uncoated stone wool board that is produced in accordance with TS EN 13500 and specially according to TS EN 13162 standard and is used in plastered exterior insulation systems for heat, sound insulation and fire safety.

## Usage Areas

Used in plastered exterior insulation systems for thermal, sound insulation and fire safety.

Mega Insulation Stone Wool Contact Facade System; It provides reduction of thermal losses and gains, thermal comfort, noise prevention, fire safety and condensation prevention.

## Stock and Storage Conditions

- If possible, the materials should be stacked in a closed environment on low slope, protected from water, on wooden pallets. Pallets should not be stacked over each other
- If it is to be stacked in an open environment, a nylon cover (that will not cut the air flow and form a pool, but also will be waterproof), will be placed over the materials to protect it from water. Sheets should be protected from the sun as well as protected from water.
- Materials are in packages; a crane should be used if possible at the construction site or on the roof. As the pallet sizes vary, the appropriate forklift or crane should be selected.
- If pallets are to be transported by crane, steel or chain ropes should never be used, and flat ropes (nylon, hemp, silk) should be preferred. Wooden wedges should be placed where the ropes come from and their edges should be protected. Wedges should overflow 3.5 cm from the pallets.

# Mega Insulation Solutions

## StoneWool

### MEGA SW-35L

### FACADE BOARD



Ürünün Tipi / Kullanım Alanı Product Type / Usage Area	SW-35L (Isı Yalıtım Levhası) SW-35L (Thermal Insulation Board)									
Özellikler Features	Standart Gösterim Standard Impression	Beyan Sembolü Declaration Symbol	Birim Unit	Beyan Değeri Declaration Value				Tolerans Tolerance	Ref. Standart Ref. Standard	
Malzeme Material	MW	MW	-	Taşyünü / Stonewool				-	TS EN 13162	
Uzunluk Length	l	l	mm	1200				± %2	TS EN 822	
Genişlik Width	b	b	mm	600				± %1,5	TS EN 822	
Boyutsal Kararlılık Dimensional Stability	$\Delta\epsilon_d$	DS(70-)	%	max 1				-	TS EN 1604	
Su Buharı Geçirgenliği Water Vapor Transmission	$\mu$	MU	-	1				-	TS EN 12086	
Yanmazlık Sınıfı / Yangına Tepki Non-combustibility Class / Reaction Fire	RF	-	-	A1				-	TS EN 13501	
Kalınlık Thickness	d <sub>N</sub>	d <sub>N</sub>	mm	50	60	70	80	100	120	-
Kalınlık Sınıfı Thickness Class	-	T <sub>i</sub>	mm	T4				-%3 veya -3 mm* +%6 veya +5 mm*	-	TS EN 823
Isıl İletkenlik Beyan Değeri (10 °C) Declaration Value (10 °C)	-	$\lambda_D$	W/mK	max 0,035				-	TS EN 12939/12667	
Isıl Direnç Beyan Değeri Thermal Resistance Declaration Value	-	R <sub>D</sub>	m <sup>2</sup> K/W	1,40	1,70	2,00	2,25	2,85	3,40	-
Düzlemsellik / Yüzey Düzgünlüğü Planarity / Surface Smoothness	S <sub>max</sub>	S <sub>max</sub>	mm	S6				6 mm	TS EN 825	
Gönyeden Sapma Deviation from squareness	S <sub>b</sub>	S <sub>b</sub>	mm/m	S5				5 mm	TS EN 824	
Kısa Süreli Su Absorpsiyonu Short-term Water Absorption	WS	W <sub>P</sub>	kg/m <sup>2</sup>	≤1				-	TS EN 1609	
Uzun Süreli Su Absorpsiyonu Long-term Water Absorption	WL(P)	W <sub>L,P</sub>	kg/m <sup>2</sup>	≤3				-	TS EN 12087	
Max. Kullanım Sıcaklığı Max. Usage Temperature	-	-	°C	+750				-	-	
Basma Mukavemeti Compression Strength	$\sigma_{10}$	CS(10/Y) <sub>i</sub>	kPa	min. 25				-	TS EN 826	
Yüzeyle Dik Çekme Tensile Strength Perpendicular to Surface	$\sigma_{mt}$	TR <sub>i</sub>	kPa	min. 7,5				-	TS EN 1607	
Ambalaj Malzemesi Packing Material	-	-	-	PE Film				-	-	
Kaplama Facing	-	-	-	KAPLAMASIZ / UNFACED				-	-	

# Mega Insulation Solutions

## StoneWool

MEGA SW EF 70-80-90  
VENTILATED FACADE BOARD



Mega Insulation Stone Wool Ventilated Facade Board; It is a stone wool board with a surface covered with aluminum foil or black and yellow tissue or uncoated on both sides, used for heat, acoustic insulation and fire safety.

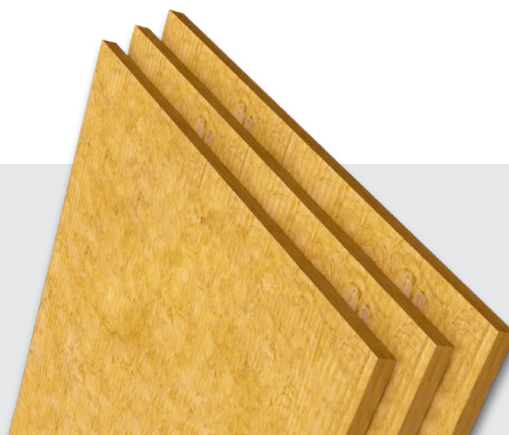
Ventilated Facade Boards; Black glass tissue, yellow glass tissue, with or without aluminum foil are offered.

## Usage Areas

Mega Insulation Stone Wool Curtain Wall Board is a product that can be mounted on the facade walls and it can be installed and placed between the carrier profiles on the facade.

## Stock and Storage Conditions

- If possible, the materials should be stacked in a closed environment on low slope, protected from water, on wooden pallets. Pallets should not be stacked over each other
- If it is to be stacked in an open environment, a nylon cover (that will not cut the air flow and form a pool, but also will be waterproof), will be placed over the materials to protect it from water. Sheets should be protected from the sun as well as protected from water.
- Materials are in packages; a crane should be used if possible at the construction site or on the roof. As the pallet sizes vary, the appropriate forklift or crane should be selected.
- If pallets are to be transported by crane, steel or chain ropes should never be used, and flat ropes (nylon, hemp, silk) should be preferred. Wooden wedges should be placed where the ropes come from and their edges should be protected. Wedges should overflow 3.5 cm from the pallets.



# Mega Insulation Solutions

## StoneWool

MEGA SW EF 70-80-90  
VENTILATED FACADE BOARD



Ürünün Tipi / Kullanım Alanı Product Type / Usage Area	Giydirme Cephe Levhası - MEGA SW EF 70-80-90 External Facade Board - MEGA SW EF 70-80-90											
Özellikler Features	Standart Gösterim Standard Impression	Beyan Sembolü Declaration Symbol	Birim Unit	Beyan Değeri Declaration Value				Tolerans Tolerance	Ref. Standart Ref. Standard			
Malzeme Material	MW	MW	-	Taşyünü / Stonewool				-	TS EN 13162			
Yoğunluk Density	$\rho$	-	kg/m <sup>3</sup>	70-80-90				±% 10	TS EN 1602			
Uzunluk Length	l	l	mm	1200				±% 2	TS EN 822			
Genişlik Width	b	b	mm	600				±% 1,5	TS EN 822			
Boyutsal Kararlılık Dimensional Stability	$\Delta\epsilon_d$	DS(70-)	%	max 1				-	TS EN 1604			
Su Buharı Geçirgenliği Water Vapor Transmission	$\mu$	MU	-	1				-	TS EN 12086			
Yanmazlık Sınıfı / Yangına Tepki Non-combustibility Class / Reaction Fire	RfF	-	-	A1				-	TS EN 13501			
Kalınlık Thickness	dn	dn	mm	40	50	60	70	80	100	120	-	TS EN 823
Kalınlık Sınıfı Thickness Class	-	Ti	mm	T4				-%3 veya -3 mm* -%3 or -3 mm*	+%5 veya +5 mm* +%5 or +5 mm*			
Isıl İletkenlik Beyan Değeri (10 °C) Declaration Value (10 °C)	-	$\lambda_D$	W/mK	max 0,035				-	TS EN 12939/12667			
Isıl Direnç Beyan Değeri Thermal Resistance Declaration Value	-	R <sub>D</sub>	m <sup>2</sup> K/W	1,10	1,40	1,70	2,00	2,25	2,85	3,40	-	TS EN 13162
Düzlemsellik / Yüzey Düzgünlüğü Planarity / Surface Smoothness	S <sub>max</sub>	S <sub>max</sub>	mm	S6 - max 6 mm				-	TS EN 825			
Gönyeden Sapma Deviation from squareness	S <sub>b</sub>	S <sub>b</sub>	mm/m	S5 - max 5 mm/m				-	TS EN 824			
Kısa Süreli Su Absorpsiyonu Short-term Water Absorption	W <sub>S</sub>	W <sub>P</sub>	kg/m <sup>2</sup>	≤1				-	TS EN 1609			
Uzun Süreli Su Absorpsiyonu Long-term Water Absorption	W <sub>L(P)</sub>	W <sub>L(P)</sub>	kg/m <sup>2</sup>	≤3				-	TS EN 12087			
Max. Kullanım Sıcaklığı Max. Usage Temperature	-	-	°C	+750				-	-			
Basma Mukavemeti Compression Strength	$\sigma_{10}$	CS(10/Y)i	kPa	Basma sünmesi gerektiren uygulamalarda kullanılmaz It is not used in applications requiring compression creep (NPD)				-	TS EN 826			
Yüzeyle Dik Çekme Tensile Strength Perpendicular to Surface	$\sigma_{mt}$	TRi	kPa	Aranmaz / NPD				-	TS EN 1607			
Ambalaj Malzemesi Packing Material	-	-	-	PE Film				-	-			
Kaplama Facing	-	-	-	Kaplmalı ve Kaplamasız / Faced and Unfaced				-	-			

# Mega Insulation Solutions

## StoneWool

MEGA SW PB 40-50-60-70  
PARTITION BOARD



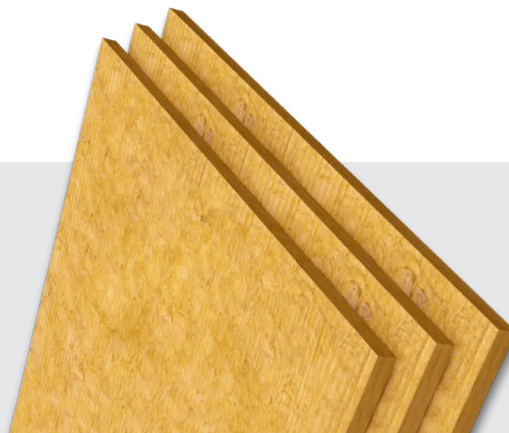
Mega Insulation Stone Wool Partition Board It is used for fire safety purposes as it is in the "A1 incombustible" class by providing sound and thermal insulation in light partition wall systems. By using Mega Insulation Stone Wool partition wall insulation board, insulation is maximized in the partition walls and acoustic performance, fire safety and acoustic insulation are provided. Partition Boards; Black glass tissue, yellow glass tissue, with or without aluminum foil are offered.

### Usage Areas

It is a mineral wool insulation board specially developed by Mega Insulation Solutions for use in partition wall systems. Mega Insulation Stone Wool has a very high fire resistance as well as providing high performance heat and acoustic insulation.

### Stock and Storage Conditions

- If possible, the materials should be stacked in a closed environment on low slope, protected from water, on wooden pallets . Pallets should not be stacked over each other
- If it is to be stacked in an open environment, a nylon cover (that will not cut the air flow and form a pool, but also will be waterproof), will be placed over the materials to protect it from water. Sheets should be protected from the sun as well as protected from water.
- Materials are in packages; a crane should be used if possible at the construction site or on the roof. As the pallet sizes vary, the appropriate forklift or crane should be selected.
- If pallets are to be transported by crane, steel or chain ropes should never be used, and flat ropes (nylon, hemp, silk) should be preferred. Wooden wedges should be placed where the ropes come from and their edges should be protected. Wedges should overflow 3.5 cm from the pallets.



# Mega Insulation Solutions

## StoneWool

### MEGA SW PB 40-50-60-70

### PARTITION BOARD



Ürünün Tipi / Kullanım Alanı Product Type / Usage Area	Ara Bölme Levhası - MEGA SW PB 40-50-60-70 Partition Board - MEGA SW PB 40-50-60-70											
Özellikler Features	Standart Gösterim Standard Impression	Beyan Sembolü Declaration Symbol	Birim Unit	Beyan Değeri Declaration Value				Tolerans Tolerance	Ref. Standart Ref. Standard			
Malzeme Material	MW	MW	-	Taşyünü / Stonewool				-	TS EN 13162			
Yoğunluk Density	$\rho$	-	kg/m <sup>3</sup>	40-50-60-70				±% 10	TS EN 1602			
Uzunluk Length	l	l	mm	1200				± %2	TS EN 822			
Genişlik Width	b	b	mm	600				± %1,5	TS EN 822			
Boyutsal Kararlılık Dimensional Stability	$\Delta\epsilon_d$	DS(70-)	%	max 1				-	TS EN 1604			
Su Buharı Geçirgenliği Water Vapor Transmission	$\mu$	MU	-	1				-	TS EN 12086			
Yanmazlık Sınıfı / Yangına Tepki Non-combustibility Class / Reaction Fire	RfF	-	-	A1				-	TS EN 13501			
Kalınlık Thickness	dn	dn	mm	40	50	60	70	80	100	120	-	TS EN 823
Kalınlık Sınıfı Thickness Class	-	Ti	mm	T4				-%3 veya -3 mm* -%3 or -3 mm*	+%5 veya +5 mm* +%5 or +5 mm*			
Isıl İletkenlik Beyan Değeri (10 °C) Declaration Value (10 °C)	-	$\lambda_D$	W/mK	max 0,035				-	TS EN 12939/12667			
Isıl Direnç Beyan Değeri Thermal Resistance Declaration Value	-	R <sub>D</sub>	m <sup>2</sup> K/W	1,10	1,40	1,70	2,00	2,25	2,85	3,40	-	TS EN 13162
Düzlemsellik / Yüzey Düzgünlüğü Planarity / Surface Smoothness	S <sub>max</sub>	S <sub>max</sub>	mm	S6 - max 6 mm				-	TS EN 825			
Gönyeden Sapma Deviation from squareness	S <sub>b</sub>	S <sub>b</sub>	mm/m	S5 - max 5 mm/m				-	TS EN 824			
Kısa Süreli Su Absorpsiyonu Short-term Water Absorption	W <sub>S</sub>	W <sub>P</sub>	kg/m <sup>2</sup>	≤1				-	TS EN 1609			
Uzun Süreli Su Absorpsiyonu Long-term Water Absorption	W <sub>L(P)</sub>	W <sub>L(P)</sub>	kg/m <sup>2</sup>	≤3				-	TS EN 12087			
Max. Kullanım Sıcaklığı Max. Usage Temperature	-	-	°C	+750				-	-			
Basma Mukavemeti Compression Strength	$\sigma_{10}$	CS(10/Y)i	kPa	Basma sünmesi gerektiren uygulamalarda kullanılmaz It is not used in applications requiring compression creep (NPD)				-	TS EN 826			
Yüzeyle Dik Çekme Tensile Strength Perpendicular to Surface	$\sigma_{mt}$	TRi	kPa	Aranmaz / NPD				-	TS EN 1607			
Ambalaj Malzemesi Packing Material	-	-	-	PE Film				-	-			
Kaplama Facing	-	-	-	Kaplmalı ve Kaplamasız / Faced and Unfaced				-	-			



# Mega Insulation Solutions

## StoneWool

MEGA SW FF100-120  
FLOATING FLOOR BOARD



Mega Insulation Floating Floor Board; It is a stone wool board produced for the purpose of heat, acoustic and vibration insulation in the floor coverings of buildings, under screed flooring between two layers of concrete, under vibration source bases, on open passage floors.

### Usage Areas

In addition to providing high performance heat and acoustic insulation, Mega Insulation Stone Wool has very high fire resistance.

### Stock and Storage Conditions

- If possible, the materials should be stacked in a closed environment on low slope, protected from water, on wooden pallets . Pallets should not be stacked over each other
- If it is to be stacked in an open environment, a nylon cover (that will not cut the air flow and form a pool, but also will be waterproof), will be placed over the materials to protect it from water. Sheets should be protected from the sun as well as protected from water.
- Materials are in packages; a crane should be used if possible at the construction site or on the roof. As the pallet sizes vary, the appropriate forklift or crane should be selected.
- If pallets are to be transported by crane, steel or chain ropes should never be used, and flat ropes (nylon, hemp, silk) should be preferred. Wooden wedges should be placed where the ropes come from and their edges should be protected. Wedges should overflow 3.5 cm from the pallets.

# Mega Insulation Solutions

## StoneWool

### MEGA SW FF100-120

### FLOATING FLOOR BOARD



Ürünün Tipi / Kullanım Alanı Product Type / Usage Area	Yüzer Döşeme Levhası - MEGA SW FF100-120 Floating Floor Board - MEGA SW FF100-120					
Özellikler Features	Standart Gösterim Standard Impression	Beyan Sembolü Declaration Symbol	Birim Unit	Beyan Değeri Declaration Value	Tolerans Tolerance	Ref. Standart Ref. Standard
Malzeme Material	MW	MW	-	Taşyünü / Stonewool	-	TS EN 13162
Yoğunluk Density	$\rho$	-	kg/m <sup>3</sup>	100-120	±% 10	TS EN 1602
Uzunluk Length	l	l	mm	1200	± %2	TS EN 822
Genişlik Width	b	b	mm	600	± %1,5	TS EN 822
Boyutsal Kararlılık Dimensional Stability	$\Delta\epsilon_d$	DS(70-)	%	max 1	-	TS EN 1604
Su Buharı Geçirgenliği Water Vapor Transmission	$\mu$	MU	-	1	-	TS EN 12086
Yanmazlık Sınıfı / Yangına Tepki Non-combustibility Class / Reaction Fire	RfF	-	-	A1	-	TS EN 13501
Kalınlık Thickness	dn	dn	mm	30	-	TS EN 823
Kalınlık Sınıfı Thickness Class	-	Ti	mm	T4	-%3 veya -3 mm* +%5 veya +5 mm* -%3 or -3 mm* +%5 or +5 mm*	
Isıl İletkenlik Beyan Değeri (10 °C) Declaration Value (10 °C)	-	$\lambda_D$	W/mK	max 0,036	-	TS EN 12939/12667
Isıl Direnç Beyan Değeri Thermal Resistance Declaration Value	-	R <sub>D</sub>	m <sup>2</sup> K/W	0,80	-	TS EN 13162
Düzlemsellik / Yüzey Düzgünlüğü Planarity / Surface Smoothness	S <sub>max</sub>	S <sub>max</sub>	mm	S6 - max 6 mm	-	TS EN 825
Gönyeden Sapma Deviation from squareness	S <sub>b</sub>	S <sub>b</sub>	mm/m	S5 - max 5 mm/m	-	TS EN 824
Kısa Süreli Su Absorpsiyonu Short-term Water Absorption	W <sub>S</sub>	W <sub>P</sub>	kg/m <sup>2</sup>	≤1	-	TS EN 1609
Uzun Süreli Su Absorpsiyonu Long-term Water Absorption	W <sub>L(P)</sub>	W <sub>L(P)</sub>	kg/m <sup>2</sup>	≤3	-	TS EN 12087
Max. Kullanım Sıcaklığı Max. Usage Temperature	-	-	°C	+750	-	-
Basma Mukavemeti Compression Strength	$\sigma_{10}$	CS(10/Y)i	kPa	25	-	TS EN 826
Yüzeyle Dik Çekme Tensile Strength Perpendicular to Surface	$\sigma_{mt}$	TRi	kPa	Aranmaz / NPD	-	TS EN 1607
Ambalaj Malzemesi Packing Material	-	-	-	PE Film	-	-
Kaplama Facing	-	-	-	Kaplamasız / Unfaced	-	-

# Mega Insulation Solutions

## StoneWool

MEGA SW I70-100  
INDUSTRY BOARD



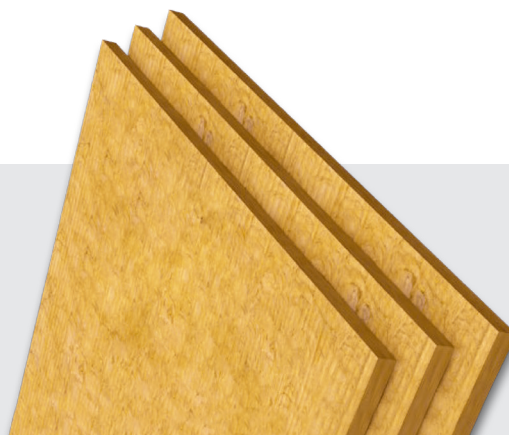
These are stone wool boards used in industrial facilities, process equipment, steel construction structures, ready panel applications for thermal insulation and fire safety. Industry Signs; Black glass tissue, yellow glass tissue, with or without aluminum foil are offered.

### Usage Areas

Superior fireproofing feature of Mega Insulation Stone Wool Industrial Board; provides high level insulation at very high temperatures.

### Stock and Storage Conditions

- If possible, the materials should be stacked in a closed environment on low slope, protected from water, on wooden blocks. Pallets should not be stacked over each other.
- If stacked in open environment, nylon or tarpaulin should be covered so as not to interrupt the air flow and create a pool to protect it from water. Sheets should be protected from the sun as well as protected from water.
- Materials are in packages; a crane should be used if possible at the construction site or on the roof. As the pallet sizes and sizes vary, the appropriate forklift or crane should be selected.
- If pallets are to be transported by crane, steel or chain ropes should never be used, and flat ropes (nylon, hemp, silk) should be preferred. Wooden wedges should be placed where the ropes come from and their edges should be protected. Wedges should overflow 3.5 cm from the pallets.



# Mega Insulation Solutions

## StoneWool

### MEGA SW I70-100

#### INDUSTRY BOARD



Özellikler Features	Standart Gösterim Standard Impression	Beyan Sembolü Declaration Symbol	Birim Unit	Beyan Değeri Declaration Value					Tolerans Tolerance	Ref. Standart Ref. Standard
Malzeme Material	MW	MW	-	Taşyünü / Stonewool					-	TS EN 14303
Yoğunluk Density	$\rho$	-	kg/m <sup>3</sup>	70	110				±% 10	TS EN 1602
Uzunluk Length	l	l	mm	1200					± %2	TS EN 822
Genişlik Width	b	b	mm	600					± %1,5	TS EN 822
Boyutsal Kararlılık Dimensional Stability	$\Delta\epsilon_a$	DS(70-)	%	max 1					-	TS EN 1604
Su Buharı Geçirgenliği Water Vapor Transmission	$\mu$	MU	-	1					-	TS EN 12086
Yanmazlık Sınıfı / Yangına Tepki Non-combustibility Class / Reaction Fire	RTF	-	-	A1					-	TS EN 13501
Kalınlık Thickness	dn	dn	mm	40-120	50-120				-	TS EN 823
Kalınlık Sınıfı Thickness Class	-	Ti	mm	T4					-%3 veya -3 mm* +%5 veya +5 mm* -%3 or -3 mm* +%5 or +5 mm*	
Isıl İletkenlik Beyan Değeri Declaration Value	-	$\lambda_D$	W/mK	10 °C 0,036	50 °C 0,040	100 °C 0,045	150 °C 0,055	200 °C 0,070	-	TS EN 12939/12667
Düzlemsellik / Yüzey Düzgünlüğü Planarity / Surface Smoothness	Smax	Smax	mm	S6 - max 6 mm					-	TS EN 825
Gönyeden Sapma Deviation from squareness	Sb	Sb	mm/m	S5 - max 5 mm/m					-	TS EN 824
Max. Kullanım Sıcaklığı Max. Usage Temperature	-	-	°C	+750					-	-
Ambalaj Malzemesi Packing Material	-	-	-	PE Film					-	-
Kaplama Facing	-	-	-	Kaplmalı ve Kaplamasız / Faced and Unfaced					-	-

# Mega Insulation Solutions

## StoneWool

MEGA SW RF 30-40-50-60-70

### TERRACE ROOF BOARD



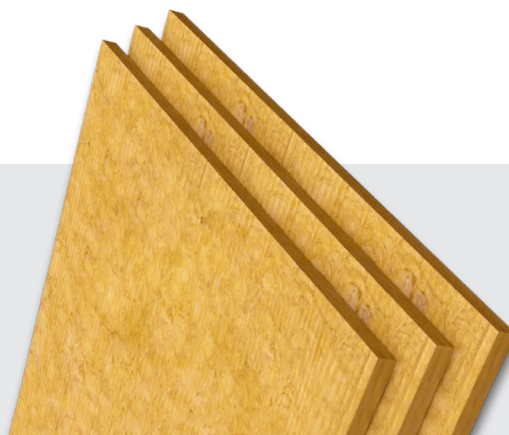
Mega Insulation Flat Roof Board can meet all requirements for heat, acoustic and fire safety and can be applied in all roof types. Since it can be produced in low thicknesses, it can also be used as a double layer if necessary.

## Usage Areas

Mega Insulation Flat Roofing Boards 30 kPa, It can be used on all types of inclined metal and wooden roofs, as well as on terrace roofs.

## Stock and Storage Conditions

- If possible, the materials should be stacked in a closed environment on low slope, protected from water, on wooden blocks. Pallets should not be stacked over each other.
- If stacked in open environment, nylon or tarpaulin should be covered so as not to interrupt the air flow and create a pool to protect it from water. Sheets should be protected from the sun as well as protected from water.
- Materials are in packages; a crane should be used if possible at the construction site or on the roof. As the pallet sizes and sizes vary, the appropriate forklift or crane should be selected.
- If pallets are to be transported by crane, steel or chain ropes should never be used, and flat ropes (nylon, hemp, silk) should be preferred. Wooden wedges should be placed where the ropes come from and their edges should be protected. Wedges should overflow 3.5 cm from the pallets.



# Mega Insulation Solutions

## StoneWool

### MEGA SW R30KPA

### TERRACE ROOF BOARD



Özellikler Features	Standart Gösterim Standard Impression	Beyan Sembolü Declaration Symbol	Birim Unit	Beyan Değeri Declaration Value					Tolerans Tolerance	Ref. Standart Ref. Standard
Malzeme Material	MW	MW	-	Taşyünü / Stonewool					-	TS EN 13162
Uzunluk Length	l	l	mm	1200					± %2	TS EN 822
Genişlik Width	b	b	mm	600					± %1,5	TS EN 822
Boyutsal Kararlılık Dimensional Stability	$\Delta\epsilon_a$	DS(70-)	%	max 1					-	TS EN 1604
Su Buharı Geçirgenliği Water Vapor Transmission	$\mu$	MU	-	1					-	TS EN 12086
Yanmazlık Sınıfı / Yangına Tepki Non-combustibility Class / Reaction Fire	RtF	-	-	A1					-	TS EN 13501
Kalınlık Thickness	d <sub>N</sub>	d <sub>N</sub>	mm	40	50	60	80	100	-	TS EN 823
Kalınlık Sınıfı Thickness Class	-	T <sub>i</sub>	mm	T4					-%3 veya -3 mm* +%5 veya +5 mm* -%3 or -3 mm* +%5 or +5 mm*	
Isıl İletkenlik Beyan Değeri (10 °C) Declaration Value (10 °C)	-	$\lambda_D$	W/mK	max 0,039					-	TS EN 12939/12667
Isıl Direnç Beyan Değeri Thermal Resistance Declaration Value	-	R <sub>D</sub>	m <sup>2</sup> K/W	1,00	1,25	1,50	2,05	2,55	-	TS EN 13162
Düzlemsellik / Yüzey Düzgünlüğü Planarity / Surface Smoothness	S <sub>max</sub>	S <sub>max</sub>	mm	S6 - max 6 mm					-	TS EN 825
Gönyeden Sapma Deviation from squareness	S <sub>b</sub>	S <sub>b</sub>	mm/m	S5 - max 5 mm/m					-	TS EN 824
Kısa Süreli Su Absorpsiyonu Short-term Water Absorption	WS	W <sub>P</sub>	kg/m <sup>2</sup>	≤1					-	TS EN 1609
Uzun Süreli Su Absorpsiyonu Long-term Water Absorption	WL(P)	W <sub>L,P</sub>	kg/m <sup>2</sup>	≤3					-	TS EN 12087
Max. Kullanım Sıcaklığı Max. Usage Temperature	-	-	°C	+750					-	-
Basma Mukavemeti Compression Strength	$\sigma_{10}$	CS(10/Y) <sub>i</sub>	kPa	min. 30					-	TS EN 826
Yüzeyle Dik Çekme Tensile Strength Perpendicular to Surface	$\sigma_{mt}$	TR <sub>i</sub>	kPa	min. 10					-	TS EN 1607
Ambalaj Malzemesi Packing Material	-	-	-	PE Film					-	-
Kaplama Facing	-	-	-	Kaplamasız / Unfaced					-	-

# Mega Insulation Solutions

## StoneWool

### MEGA SW R40KPA

### TERRACE ROOF BOARD



Özellikler Features	Standart Gösterim Standard Impression	Beyan Sembolü Declaration Symbol	Birim Unit	Beyan Değeri Declaration Value					Tolerans Tolerance	Ref. Standart Ref. Standard
Malzeme Material	MW	MW	-	Taşünü / Stonewool					-	TS EN 13162
Uzunluk Length	l	l	mm	1200					± %2	TS EN 822
Genişlik Width	b	b	mm	600					± %1,5	TS EN 822
Boyutsal Kararlılık Dimensional Stability	$\Delta\epsilon_a$	DS(70-)	%	max 1					-	TS EN 1604
Su Buharı Geçirgenliği Water Vapor Transmission	$\mu$	MU	-	1					-	TS EN 12086
Yanmazlık Sınıfı / Yangına Tepki Non-combustibility Class / Reaction Fire	RtF	-	-	A1					-	TS EN 13501
Kalınlık Thickness	d <sub>N</sub>	d <sub>N</sub>	mm	40	50	60	80	100	-	TS EN 823
Kalınlık Sınıfı Thickness Class	-	T <sub>i</sub>	mm	T4					-%3 veya -3 mm* +%5 veya +5 mm*	
Isıl İletkenlik Beyan Değeri (10 °C) Declaration Value (10 °C)	-	$\lambda_D$	W/mK	max 0,039					-	TS EN 12939/12667
Isıl Direnç Beyan Değeri Thermal Resistance Declaration Value	-	R <sub>D</sub>	m <sup>2</sup> K/W	1,00	1,25	1,50	2,05	2,55	-	TS EN 13162
Düzlemsellik / Yüzey Düzgünlüğü Planarity / Surface Smoothness	S <sub>max</sub>	S <sub>max</sub>	mm	S6 - max 6 mm					-	TS EN 825
Gönyeden Sapma Deviation from squareness	S <sub>b</sub>	S <sub>b</sub>	mm/m	S5 - max 5 mm/m					-	TS EN 824
Kısa Süreli Su Absorpsiyonu Short-term Water Absorption	WS	W <sub>P</sub>	kg/m <sup>2</sup>	≤1					-	TS EN 1609
Uzun Süreli Su Absorpsiyonu Long-term Water Absorption	WL(P)	W <sub>L,P</sub>	kg/m <sup>2</sup>	≤3					-	TS EN 12087
Max. Kullanım Sıcaklığı Max. Usage Temperature	-	-	°C	+750					-	-
Basma Mukavemeti Compression Strength	$\sigma_{10}$	CS(10/Y) <sub>i</sub>	kPa	min. 40					-	TS EN 826
Yüzeylere Dik Çekme Tensile Strength Perpendicular to Surface	$\sigma_{mt}$	TR <sub>i</sub>	kPa	min. 10					-	TS EN 1607
Ambalaj Malzemesi Packing Material	-	-	-	PE Film					-	-
Kaplama Facing	-	-	-	Kaplamasız / Unfaced					-	-

# Mega Insulation Solutions

## StoneWool

### MEGA SW R50KPA

### TERRACE ROOF BOARD



Özellikler Features	Standart Gösterim Standard Impression	Beyan Sembolü Declaration Symbol	Birim Unit	Beyan Değeri Declaration Value				Tolerans Tolerance	Ref. Standart Ref. Standard
Malzeme Material	MW	MW	-	Taşyünü / Stonewool				-	TS EN 13162
Uzunluk Length	l	l	mm	1200				± %2	TS EN 822
Genişlik Width	b	b	mm	600				± %1,5	TS EN 822
Boyutsal Kararlılık Dimensional Stability	$\Delta\epsilon_a$	DS(70-)	%	max 1				-	TS EN 1604
Su Buharı Geçirgenliği Water Vapor Transmission	$\mu$	MU	-	1				-	TS EN 12086
Yanmazlık Sınıfı / Yangına Tepki Non-combustibility Class / Reaction Fire	RtF	-	-	A1				-	TS EN 13501
Kalınlık Thickness	d <sub>N</sub>	d <sub>N</sub>	mm	50	60	80	100	-	TS EN 823
Kalınlık Sınıfı Thickness Class	-	T <sub>i</sub>	mm	T4				-%3 veya -3 mm* +%65 veya +5 mm* -%3 or -3 mm* +%65 or +5 mm*	
Isıl İletkenlik Beyan Değeri (10 °C) Declaration Value (10 °C)	-	$\lambda_D$	W/mK	max 0,039				-	TS EN 12939/12667
Isıl Direnç Beyan Değeri Thermal Resistance Declaration Value	-	R <sub>D</sub>	m <sup>2</sup> K/W	1,25	1,50	2,05	2,55	-	TS EN 13162
Düzlemsellik / Yüzey Düzgünlüğü Planarity / Surface Smoothness	S <sub>max</sub>	S <sub>max</sub>	mm	S6 - max 6 mm				-	TS EN 825
Gönyeden Sapma Deviation from squareness	S <sub>b</sub>	S <sub>b</sub>	mm/m	S5 - max 5 mm/m				-	TS EN 824
Kısa Süreli Su Absorpsiyonu Short-term Water Absorption	WS	W <sub>P</sub>	kg/m <sup>2</sup>	≤1				-	TS EN 1609
Uzun Süreli Su Absorpsiyonu Long-term Water Absorption	WL(P)	W <sub>L,P</sub>	kg/m <sup>2</sup>	≤3				-	TS EN 12087
Max. Kullanım Sıcaklığı Max. Usage Temperature	-	-	°C	+750				-	-
Basma Mukavemeti Compression Strength	$\sigma_{10}$	CS(10/Y) <sub>i</sub>	kPa	min. 50				-	TS EN 826
Yüzeyle Dik Çekme Tensile Strength Perpendicular to Surface	$\sigma_{mt}$	TR <sub>i</sub>	kPa	min. 10				-	TS EN 1607
Ambalaj Malzemesi Packing Material	-	-	-	PE Film				-	-
Kaplama Facing	-	-	-	Kaplamasız / Unfaced				-	-



# Mega Insulation Solutions

## StoneWool

### MEGA SW R60KPA

### TERRACE ROOF BOARD



Ürünün Tipi / Kullanım Alanı Product Type / Usage Area	Teras Çatı Levhası - MEGA SW R60KPA Terrace Roof Board - MEGA SW R60KPA							
Özellikler Features	Standart Gösterim Standard Impression	Beyan Sembolü Declaration Symbol	Birim Unit	Beyan Değeri Declaration Value			Tolerans Tolerance	Ref. Standart Ref. Standard
Malzeme Material	MW	MW	-	Taşyünü / Stonewool			-	TS EN 13162
Uzunluk Length	l	l	mm	1200			± %2	TS EN 822
Genişlik Width	b	b	mm	600			± %1,5	TS EN 822
Boyutsal Kararlılık Dimensional Stability	$\Delta\epsilon_a$	DS(70-)	%	max 1			-	TS EN 1604
Su Buharı Geçirgenliği Water Vapor Transmission	$\mu$	MU	-	1			-	TS EN 12086
Yanmazlık Sınıfı / Yangına Tepki Non-combustibility Class / Reaction Fire	RtF	-	-	A1			-	TS EN 13501
Kalınlık Thickness	d <sub>N</sub>	d <sub>N</sub>	mm	60	80	100	-	TS EN 823
Kalınlık Sınıfı Thickness Class	-	T <sub>i</sub>	mm	T4			-%3 veya -3 mm* +%5 veya +5 mm* -%3 or -3 mm* +%5 or +5 mm*	
Isıl İletkenlik Beyan Değeri (10 °C) Declaration Value (10 °C)	-	$\lambda_D$	W/mK	max 0,039			-	TS EN 12939/12667
Isıl Direnç Beyan Değeri Thermal Resistance Declaration Value	-	R <sub>D</sub>	m <sup>2</sup> K/W	1,50	2,05	2,55	-	TS EN 13162
Düzlemsellik / Yüzey Düzgünlüğü Planarity / Surface Smoothness	S <sub>max</sub>	S <sub>max</sub>	mm	S6 - max 6 mm			-	TS EN 825
Gönyeden Sapma Deviation from squareness	S <sub>b</sub>	S <sub>b</sub>	mm/m	S5 - max 5 mm/m			-	TS EN 824
Kısa Süreli Su Absorpsiyonu Short-term Water Absorption	WS	W <sub>P</sub>	kg/m <sup>2</sup>	≤1			-	TS EN 1609
Uzun Süreli Su Absorpsiyonu Long-term Water Absorption	WL(P)	W <sub>L,P</sub>	kg/m <sup>2</sup>	≤3			-	TS EN 12087
Max. Kullanım Sıcaklığı Max. Usage Temperature	-	-	°C	+750			-	-
Basma Mukavemeti Compression Strength	$\sigma_{10}$	CS(10/Y) <sub>i</sub>	kPa	min. 60			-	TS EN 826
Yüzeylere Dik Çekme Tensile Strength Perpendicular to Surface	$\sigma_{mt}$	TR <sub>i</sub>	kPa	min. 10			-	TS EN 1607
Ambalaj Malzemesi Packing Material	-	-	-	PE Film			-	-
Kaplama Facing	-	-	-	Kaplamasız / Unfaced			-	-

# Mega Insulation Solutions

## StoneWool

### MEGA SW R70KPA

### TERRACE ROOF BOARD



Ürünün Tipi / Kullanım Alanı Product Type / Usage Area	Teras Çatı Levhası - MEGA SW R70KPA Terrace Roof Board - MEGA SW R70KPA						
Özellikler Features	Standart Gösterim Standard Impression	Beyan Sembolü Declaration Symbol	Birim Unit	Beyan Değeri Declaration Value		Tolerans Tolerance	Ref. Standart Ref. Standard
Malzeme Material	MW	MW	-	Taşyünü / Stonewool		-	TS EN 13162
Uzunluk Length	l	l	mm	1200		± %2	TS EN 822
Genişlik Width	b	b	mm	600		± %1,5	TS EN 822
Boyutsal Kararlılık Dimensional Stability	$\Delta\epsilon_a$	DS(70-)	%	max 1		-	TS EN 1604
Su Buharı Geçirgenliği Water Vapor Transmission	$\mu$	MU	-	1		-	TS EN 12086
Yanmazlık Sınıfı / Yangına Tepki Non-combustibility Class / Reaction Fire	RtF	-	-	A1		-	TS EN 13501
Kalınlık Thickness	d <sub>N</sub>	d <sub>N</sub>	mm	80	100	-	TS EN 823
Kalınlık Sınıfı Thickness Class	-	Ti	mm	T4		-%3 veya -3 mm* +%5 veya +5 mm* -%3 or -3 mm* +%5 or +5 mm*	
Isıl İletkenlik Beyan Değeri (10 °C) Declaration Value (10 °C)	-	$\lambda_D$	W/mK	max 0,039		-	TS EN 12939/12667
Isıl Direnç Beyan Değeri Thermal Resistance Declaration Value	-	R <sub>D</sub>	m <sup>2</sup> K/W	2,05	2,55	-	TS EN 13162
Düzlemsellik / Yüzey Düzgünlüğü Planarity / Surface Smoothness	S <sub>max</sub>	S <sub>max</sub>	mm	S5 - max 5 mm		-	TS EN 825
Gönyeden Sapma Deviation from squareness	S <sub>b</sub>	S <sub>b</sub>	mm/m	S6 - max 6 mm/m		-	TS EN 824
Kısa Süreli Su Absorpsiyonu Short-term Water Absorption	WS	W <sub>P</sub>	kg/m <sup>2</sup>	≤1		-	TS EN 1609
Uzun Süreli Su Absorpsiyonu Long-term Water Absorption	WL(P)	W <sub>L,P</sub>	kg/m <sup>2</sup>	≤3		-	TS EN 12087
Max. Kullanım Sıcaklığı Max. Usage Temperature	-	-	°C	+750		-	-
Basma Mukavemeti Compression Strength	$\sigma_{10}$	CS(10/Y)i	kPa	min. 70		-	TS EN 826
Yüzeyle Dik Çekme Tensile Strength Perpendicular to Surface	$\sigma_{mt}$	TRi	kPa	min. 10		-	TS EN 1607
Ambalaj Malzemesi Packing Material	-	-	-	PE Film		-	-
Kaplama Facing	-	-	-	Kaplamasız / Unfaced		-	-

# Mega Insulation Solutions StoneWool

## DUCT (HVAC) BOARD



Stone wool board covered with aluminum foil on one side, used for acoustic insulation of the air conditioning and ventilation ducts and for thermal insulation from the outside.

### Usage Areas

Aluminum foil covered boards should be used in case of cold channel applications in case of condensation. Joints of the boards should be covered with adhesive aluminum foil tape.

### Stock and Storage Conditions

- If possible, the materials should be stacked in a closed environment on low slope, protected from water, on wooden blocks. Pallets should not be stacked over each other.
- If stacked in open environment, nylon or tarpaulin should be covered so as not to interrupt the air flow and create a pool to protect it from water. Sheets should be protected from the sun as well as protected from water.
- Materials are in packages; a crane should be used if possible at the construction site or on the roof. As the pallet sizes and sizes vary, the appropriate forklift or crane should be selected.
- If pallets are to be transported by crane, steel or chain ropes should never be used, and flat ropes (nylon, hemp, silk) should be preferred. Wooden wedges should be placed where the ropes come from and their edges should be protected. Wedges should overflow 3.5 cm from the pallets.

# Mega Insulation Solutions

## StoneWool

### DUCT CHANNEL (HVAC) BOARD



Ürünün Tipi / Kullanım Alanı Product Type / Usage Area	Klima Levhası Duct Channel (HVAC) Board					
Özellikler Features	Standart Gösterim Standard Impression	Beyan Sembolü Declaration Symbol	Birim Unit	Beyan Değeri Declaration Value	Tolerans Tolerance	Ref. Standart Ref. Standard
Malzeme Material	MW	MW	-	Taşyünü / Stonewool	-	TS EN 14303
Yoğunluk Density	$\rho$	-	kg/m <sup>3</sup>	50	±% 10	TS EN 1602
Uzunluk Length	l	l	mm	1200	± %2	TS EN 822
Genişlik Width	b	b	mm	600	± %1,5	TS EN 822
Boyutsal Kararlılık Dimensional Stability	$\Delta\epsilon_a$	DS(70-)	%	max 1	-	TS EN 1604
Su Buharı Geçirgenliği Water Vapor Transmission	$\mu$	MU	-	1	-	TS EN 12086
Yanmazlık Sınıfı / Yangına Tepki Non-combustibility Class / Reaction Fire	RTF	-	-	A1	-	TS EN 13501
Kalınlık Thickness	dn	dn	mm	25	-	TS EN 823
Kalınlık Sınıfı Thickness Class	-	Ti	mm	T4	-%3 veya -3 mm* +%5 veya +5 mm* -%3 or -3 mm* +%5 or +5 mm*	
Isıl İletkenlik Beyan Değeri (10 °C) Declaration Value (10 °C)	-	$\lambda_D$	W/mK	max 0,035	-	TS EN 12939/12667
Isıl Direnç Beyan Değeri Thermal Resistance Declaration Value	-	R <sub>D</sub>	m <sup>2</sup> K/W	0,70	-	TS EN 13162
Düzlemsellik / Yüzey Düzgünlüğü Planarity / Surface Smoothness	S <sub>max</sub>	S <sub>max</sub>	mm	S6 - max 6 mm	-	TS EN 825
Gönyeden Sapma Deviation from squareness	S <sub>b</sub>	S <sub>b</sub>	mm/m	S5 - max 5 mm/m	-	TS EN 824
Max. Kullanım Sıcaklığı Max. Usage Temperature	-	-	°C	+750	-	-
Ambalaj Malzemesi Packing Material	-	-	-	PE Film	-	-
Kaplama Facing	-	-	-	Alüminyum Folyo Kaplamalı Aluminium Foil Coated	-	-

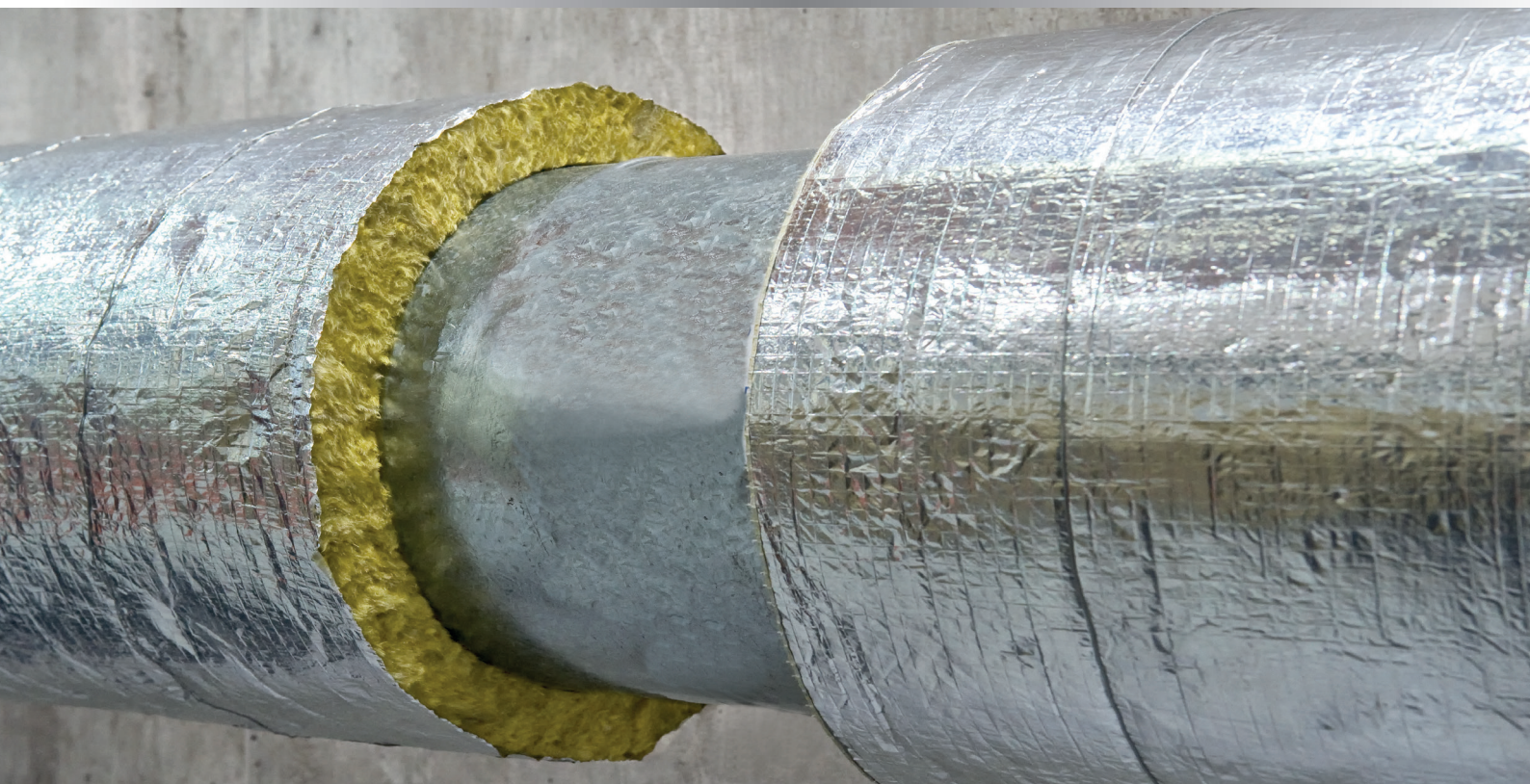
# Mega Insulation Solutions

## StoneWool

### PREFABRICATED PIPE



Mega Insulation Stone Wool Prefabricated Pipe; It is used for heat saving, fire insulation and acoustic vibration insulation in industrial and installation pipes used with or without aluminum foil.



# Mega Insulation Solutions

## StoneWool

### PREFABRICATED PIPE



Ürünün Tipi / Kullanım Alanı Product Type / Usage Area	Prefabrik Boru Prefabricated Pipe											
Özellikler Features	Standart Gösterim Standard Impression	Birim Unit	Beyan Değeri Declaration Value							Ref. Standart Ref. Standard	Uyulaştırılmış Teknik Şartname Harmonized Technical Specification	
Malzeme Material	MW	-	Taşyünü / Stonewool							TS EN 14303	EN 14303	
Yoğunluk Density	$\rho$	kg/m <sup>3</sup>	100							TS EN 1602		
Uzunluk Length	l	mm	1200							TS EN 822		
Boyutsal Kararlılık Dimensional Stability	DS(70-)ΔEa	%	max 1							TS EN 1604		
Yanmazlık Sınıfı / Yangına Tepki Non-combustibility Class / Reaction Fire	RtF	-	A1							TS EN 13501		
Isıl İletkenlik Beyan Değeri Thermal Conductivity Declaration Value	$\lambda_D$	W/mK	10 °C	50 °C	100 °C	150 °C	200 °C	250 °C	300 °C	350 °C		TS EN 12939 TS EN 12667
Kalınlık Sınıfı Thickness Class	T <sub>i</sub>	mm	T4							TS EN 823		
Kalınlık Thickness	dn	W/mK	25	30	40	50	60	80	100	TS EN 823		
İç Çap Inner Diameter	-	mm	13	21	21	21	21	60	114	TSE EN 13476		
			21	27	27	27	27	76	141			
			27	33	33	33	33	89	169			
			33	42	42	42	42	114	219			
			42	48	48	48	48	141	273			
			48	60	60	60	60	169				
			60	76	76	76	76	219				
			76	89	89	89	89	273				
			89	114	114	114	114	324				
			114	141	141	141	141	354				
				169	169	169	169					
				219	219	219	219					
					273	273	273					
					324	324	324					
					354	354	354					
Tehlikeli Maddelerin Açığa Çıkması Release of dangerous substances	-	-	-							TS EN 13162		
Kaplama Facing	-	-	Alüminyum Folyo Kaplamalı Aluminium Foil Coated							-		

# Mega Insulation Solutions

## StoneWool

### Desiwool



Desiwool is a composite product, stone wool board with gypsum board on one side. Desiwool provides maximum thermal insulation and sound insulation as it contains stone wool. Aluminum foil in between stonewool and gypsum board eliminates the risk of condensation. Besides Desiwool does not bring additional weight to the building as it has a light structure.

### Usage Areas

Desiwool is used for sound and thermal insulation in interior facade of exterior walls, partition walls and openings to stairs and elevator shafts, walls, lining the interior of wooden carcass partitions.

### Stock and Storage Conditions

- If possible, the materials should be stacked in a closed environment on low slope, protected from water, on wooden blocks. Pallets should not be stacked over each other.
- If stacked in open environment, nylon or tarpaulin should be covered so as not to interrupt the air flow and create a pool to protect it from water. Sheets should be protected from the sun as well as protected from water.
- Materials are in packages; a crane should be used if possible at the construction site or on the roof. As the pallet sizes and sizes vary, the appropriate forklift or crane should be selected.
- If pallets are to be transported by crane, steel or chain ropes should never be used, and flat ropes (nylon, hemp, silk) should be preferred. Wooden wedges should be placed where the ropes come from and their edges should be protected. Wedges should overflow 3.5 cm from the pallets.

# Mega Insulation Solutions

## StoneWool



### Desiwool

Ürünün Tipi / Kullanım Alanı Product Type / Usage Area	Desiwool										
Özellikler Features	Standart Gösterim Standard Impression	Beyan Sembolü Declaration Symbol	Birim Unit	Beyan Değeri Declaration Value				Tolerans Tolerance	Ref. Standart Ref. Standard		
Malzeme Material	MW	MW	-	Taşyünü / Stonewool				-	TS EN 13162		
Uzunluk Length	l	l	mm	2700				± %2	TS EN 822		
Genişlik Width	b	b	mm	1200				± %1,5	TS EN 822		
Boyutsal Kararlılık Dimensional Stability	$\Delta\epsilon_a$	DS(70-)	%	max 1				-	TS EN 1604		
Yanmazlık Sınıfı / Yangına Tepki Non-combustibility Class / Reaction Fire	RtF	-	-	A2 - s1 - d0				-	TS EN 13501		
Kalınlık Thickness	d <sub>n</sub>	d <sub>n</sub>	mm	15	20	30	40	50	80	-	TS EN 823
Kalınlık Sınıfı Thickness Class	-	T <sub>i</sub>	mm	T4				-%3 veya -3 mm* +%5 veya +5 mm* -%3 or -3 mm* +%5 or +5 mm*			
Isıl İletkenlik Beyan Değeri (10 °C) Declaration Value (10 °C)	-	$\lambda_D$	W/mK	max 0,035				-	TS EN 12939/12667		
Isıl Direnç Beyan Değeri Thermal Resistance Declaration Value	-	R <sub>D</sub>	m <sup>2</sup> K/W	0,40	0,55	0,85	1,10	1,40	2,25	-	TS EN 13162
Düzlemsellik / Yüzey Düzgünlüğü Planarity / Surface Smoothness	S <sub>max</sub>	S <sub>max</sub>	mm	S6				6 mm	TS EN 825		
Gönyeden Sapma Deviation from squareness	S <sub>b</sub>	S <sub>b</sub>	mm/m	S5				5 mm	TS EN 824		
Ambalaj Malzemesi Packing Material	-	-	-	PE Film - Palet PE Film - Palette				-	-		
Diğer Bilgiler Other Information	-	-	-	Taşyünü ve alçı plakadan oluşmaktadır It consists of stone wool and gypsum plate				-	-		







 **XPS**<sup>®</sup>  
Extruded Polystyrene





## WHAT IS XPS?

Extruded Polystyrene Foam is a thermal insulation material manufactured using polystyrene foam (XPS) which has been produced by extrusion method. It is produced in different surface and edge shapes in board form in different sizes and compression strengths according to its usage area and purpose.

## HOW IS XPS PRODUCED?

They are foam materials that have homogeneous cell structure, produced and used for thermal insulation. XPS raw material polystyrene is produced as a foam under constant pressure by a continuous extrusion process with the help of a blowing agent.

It is produced as a plate with closed cell structure. The board product with closed cell structure is subjected to surface treatment in accordance with the usage place.

## WHAT ARE THE GENERAL FEATURES AND ADVANTAGES?

- Low thermal conductivity value.
- Continuous and non-decreasing - thermal conductivity value thanks to its water absorption feature.
- Frost resistance.
- Thanks to its high compression and bending strength, its thickness does not decrease over time.
- High modulus of elasticity and dimensional stability.
- $\mu$  value suitable for the usage place thanks to the optimum vapor diffusion resistance.
- XPS products can be used for recycling without mixing with other plastics.
- It can be cut with all kinds of cutting tools, it is not crumbly and does not give waste.
- It has closed porous cell structure.

# Usage Areas

## 1-) Foundations

- Basic Curtain Walls Thermal Insulation,
- Thermal Insulation Under Floor Concrete,
- Flooring That Fits On The Floor.

## 2-) Walls

- Wall Internal Thermal Insulation,
- Wall External Thermal Insulation (Contact Facade),
- Ventilated Facade Applications,

## 3-) Roofs

- Reverse Terrace Roofs,
- Non-navigable Terrace Roofs,
- Pebble Covered Terrace Roofs,
- Walkable Terrace Roofs,
- Tile Covered Terrace Roof,
- Raised Floor Tile Covered Terrace Roof,

## 4-) Industry Insulation

## 5-) Floor Insulation

- Raised Floor
- Under Parquet

## 6-) Contact Facade Insulation

- Coating

## 7-) Buildings

Streets and Railway Frost Protection



# Mega Insulation Solutions XPS

## FLAT BOARD XPS



Mega Insulation Solutions Flat Surface XPS Sheets; as a result of the processing of polystyrene raw material by extrusion, the edge shape is produced with lamp bin and the surface shape is flat-armored. Mega Insulation XPS; It has a high level of water impermeability with its flat-armored surface shape and eliminates heat bridges with its edge shape.

Mega Insulation XPS, which provides thermal insulation at the maximum level with its low thermal conductivity value, does not dissipate or crumble with its high compressive strength.

## Usage Areas

Mega Insulation Flat Surface Sheets, due to their high compressive strength and especially waterproof properties.

- Terrace roofs, subsoil curtain walls and foundation insulation in contact with the soil,
- All kinds of exterior facades that do not require plaster are used for thermal insulation and especially in siding application,
- Flooring, under-parquet and underfloor heating systems,
- On hipped roofs, under the roof tiles and under the rafter,
- On the sandwich walls,
- In underfloor heating systems,
- It is used in all kinds of prefabricated composite systems and double walls.

It is thinner because it has high thermal insulation value, so it saves labor and space by using it in thicknesses.

# Mega Insulation Solutions

## XPS

### FLAT BOARD XPS



Özellikler Features	Sembol Symbol	Birim Unit	Tanım Declaration Value								Tolerans Tolerance	Standart Standard
Yangın Sınıfı Reaction to Fire Class	-	-	E								-	TS EN 13501-1
Kalınlık Tolerans Sınıfı Thickness Tolerance Class	T	mm	T1 & T3								1500-2000 -1/+1 2500-3000 -2/+3	TS EN 823
Genişlik Width	W	mm	600								≤1500 (±8) >1500 (±10)	TS EN 822
Uzunluk Length	L	mm	1200								≤1500 (±8) >1500 (±10)	TS EN 822
Gönyeden Sapma (Uzunluk/Genişlik) Deviations from Mitre (length / width)	Sb	mm/m	S5								5 mm	TS EN 824
Düzlükten Sapma Surface Smoothness	Smax	mm	S6 - max 6 mm								6 mm	TS EN 825
Isı İletkenlik Değeri Thermal Conductivity Declared Value	λD	W/mK	T1500 0,038	T2000 0,037	T2500 0,036	T3000 0,035					-	TS EN 13164
Kalınlık Thickness	d	mm	20	30	40	50	60	70	80	-	TS EN 823	
Isıl Geçirgenlik Direnci Thermal Resistance	R <sub>0</sub>	W/m <sup>2</sup> K	T1500 0,5	T1500 0,75	T1500 1,05	T1500 1,3	T1500 1,55	T1500 1,8	T1500 2,1	-	TS EN 13164	
			T2000 0,5	T2000 0,8	T2000 1,05	T2000 1,35	T2000 1,6	T2000 1,85	T2000 2,15			
			T2500 0,55	T2500 0,8	T2500 1,1	T2500 1,35	T2500 1,65	T2500 1,9	T2500 2,2			
			T3000 0,55	T3000 0,85	T3000 1,1	T3000 1,4	T3000 1,7	T3000 2	T3000 2,25			
%10 Deformasyondaki Basınç Gerilmesi Compressive Strength at 10% Deformation	CS(10)Y	kPa	CS(10)150 150≥	CS(10)200 200≥	CS(10)250 250≥	CS(10)300 300≥					-	TS EN 826
Azami Kullanım Sıcaklığı Maximum Operating Temperature	-	°C	-50/75								-	-
Tamamen Daldırmayla Uzun Dönemli Su Emme Long Term Water Absorption by Immersion Completely	WL(T)	%	WL(T)0,7								≤0,7	TS EN 12087
Belirli Sıcaklık ve Nem Şartları Altında Boyut Kararlılığı Specified in the Dimensional Stability of Temperature and Humidity Conditions	DS (23,90)	%	23°C'de ve %90 bağıl nem şartlarında 48 saat sonra At 23°C and %90±5 relative humidity, after 48 hours								Azami 2 max 2	TS EN 1604
Belirli Basınç Yükü ve Sıcaklık Şartlarındaki Şekil Değiştirme Specified compressive load and temperature Conditions of the Dimensional Stability	DLT(1)5	%	80±1°C'de, 20 kPa basınç altında 48±1 saat sonra At 80±1°C and 20 kPa at a pressure, after 48±1 hours								≤5	TS EN 1605
Yüzey Şekli Surface Shape			Düz / Pürüzlü Kanallı / Parke Altı Flat / Rough Channel / Under Parquet									
Kenar Profili Edge profile			Düz / Lamba Square 7 Ship - Lap									

# Mega Insulation Solutions XPS

## ROUGH CHANNEL XPS

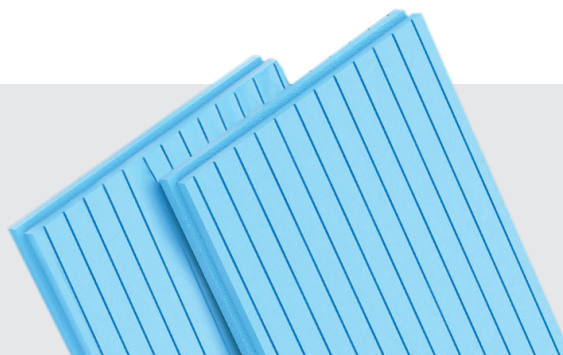


Mega Insulation Solutions Rough and Rough Channelled Surface XPS Boards; As a result of the processing of polystyrene raw material by extrusion, the edge shape is produced with lamp bin and the surface shape with rough or rough-channel.

Mega Insulation XPS; It can provide high adherence where it is applied with its surface shape and eliminating heat bridges with its edge shape. Mega Insulation XPS, which provides thermal insulation at a maximum level with its low thermal conductivity value, does not dissipate or crumble with its high compressive strength.

## Usage Areas

- Mega Insulation Rough Channelled Surfaces are used in the contact facade system and internal insulation system, which are used to insulate the buildings from the outside or inside,
- Under the roof and overhang,
- Parking ceilings,
- Columns and beams (for thermal insulation purposes),
- In foundations and columns,
- Used in all kinds of prefabricated composite systems and double walls.
- Stock and Storage Conditions
- Mega Insulation thermal insulation boards must be protected from sunlight when long term storage is required.
- If the Mega Insulation thermal insulation boards are exposed to sunlight for a long time, it may be observed that their surface and size deteriorates.
- During the production of Mega Insulation thermal insulation boards, they are produced by using fire preventive additives.
- Megaboard thermal insulation boards should not be used with solvent materials.
- It should be paid attention to horizontal stacking. If stacked vertically, edges may lose their linearity and be damaged.
- Insulation boards can be applied to the underground exterior wall with self-adhesive bituminous sheets on both sides.
- At the level where thermal insulation ends at the basement level, the finishing detail that prevents water intake and separation of the boards should be applied behind the waterproofing system.
- Drainage system should be installed in a way to prevent positive water pressure.



# Mega Insulation Solutions

## XPS

### ROUGH CHANNEL XPS



Özellikler Features	Sembol Symbol	Birim Unit	Tanım Declaration Value								Tolerans Tolerance	Standart Standard
Yangın Sınıfı Reaction to Fire Class	-	-	E								-	TS EN 13501-1
Kalınlık Tolerans Sınıfı Thickness Tolerance Class	T	mm	T1 & T3								1500-2000 -1/+1 2500-3000 -2/+3	TS EN 823
Genişlik Width	W	mm	600								≤1500 (±8) >1500 (±10)	TS EN 822
Uzunluk Length	L	mm	1200								≤1500 (±8) >1500 (±10)	TS EN 822
Gönyeden Sapma (Uzunluk/Genişlik) Deviations from Mitre (length / width)	Sb	mm/m	S5								5 mm	TS EN 824
Düzlükten Sapma Surface Smoothness	Smax	mm	S6 - max 6 mm								6 mm	TS EN 825
Isı İletkenlik Değeri Thermal Conductivity Declared Value	λD	W/mK	T1500 0,038	T2000 0,037	T2500 0,036	T3000 0,035					-	TS EN 13164
Kalınlık Thickness	d	mm	20	30	40	50	60	70	80	-	TS EN 823	
Isıl Geçirgenlik Direnci Thermal Resistance	R <sub>0</sub>	W/m <sup>2</sup> K	T1500 0,5	T1500 0,75	T1500 1,05	T1500 1,3	T1500 1,55	T1500 1,8	T1500 2,1	-	TS EN 13164	
			T2000 0,5	T2000 0,8	T2000 1,05	T2000 1,35	T2000 1,6	T2000 1,85	T2000 2,15			
			T2500 0,55	T2500 0,8	T2500 1,1	T2500 1,35	T2500 1,65	T2500 1,9	T2500 2,2			
			T3000 0,55	T3000 0,85	T3000 1,1	T3000 1,4	T3000 1,7	T3000 2	T3000 2,25			
%10 Deformasyondaki Basınç Gerilmesi Compressive Strength at 10% Deformation	CS(10)Y	kPa	CS(10)150 150≥	CS(10)200 200≥	CS(10)250 250≥	CS(10)300 300≥					-	TS EN 826
Azami Kullanım Sıcaklığı Maximum Operating Temperature	-	°C	-50/75								-	-
Tamamen Daldırmayla Uzun Dönemli Su Emme Long Term Water Absorption by Immersion Completely	WL(T)	%	WL(T)0,7								≤0,7	TS EN 12087
Belirli Sıcaklık ve Nem Şartları Altında Boyut Kararlılığı Specified in the Dimensional Stability of Temperature and Humidity Conditions	DS (23,90)	%	23°C'de ve %90 bağıl nem şartlarında 48 saat sonra At 23°C and %90±5 relative humidity, after 48 hours								Azami 2 max 2	TS EN 1604
Belirli Basınç Yükü ve Sıcaklık Şartlarındaki Şekil Değiştirme Specified compressive load and temperature Conditions of the Dimensional Stability	DLT(1)5	%	80±1°C'de, 20 kPa basınç altında 48±1 saat sonra At 80±1°C and 20 kPa at a pressure, after 48±1 hours								≤5	TS EN 1605
Yüzey Şekli Surface Shape			Düz / Pürüzlü Kanallı / Parke Altı Flat / Rough Channel / Under Parquet									
Kenar Profili Edge profile			Düz / Lamba Square 7 Ship - Lap									



# Mega Insulation Solutions XPS

## UNDER PARQUET XPS



XPS Parquet Base; its surface is a flat XPS (Extruded Polystyrene) board and it is used under the parquet to flatten the surface.

### Usage Areas

- It is used as a separating layer to smooth the surface under the parquet.
- It is used to provide every limited space and minimum thickness in internal thermal insulation of buildings.
- It contributes to heat insulation depending on its thickness.

### Stock and Storage Conditions

- Mega Insulation thermal insulation boards should be protected from sunlight when long term storage is required.
- If the Mega Insulation thermal insulation boards are exposed to sunlight for a long time, it may be observed that their surface and size deteriorates.
- Mega Insulation thermal insulation boards are produced by using fire preventive additives.
- Mega Insulation thermal insulation boards should not be used with solvent materials.
- It should be paid attention to horizontal stacking. If stacked vertically, edges may lose their linearity and be damaged.

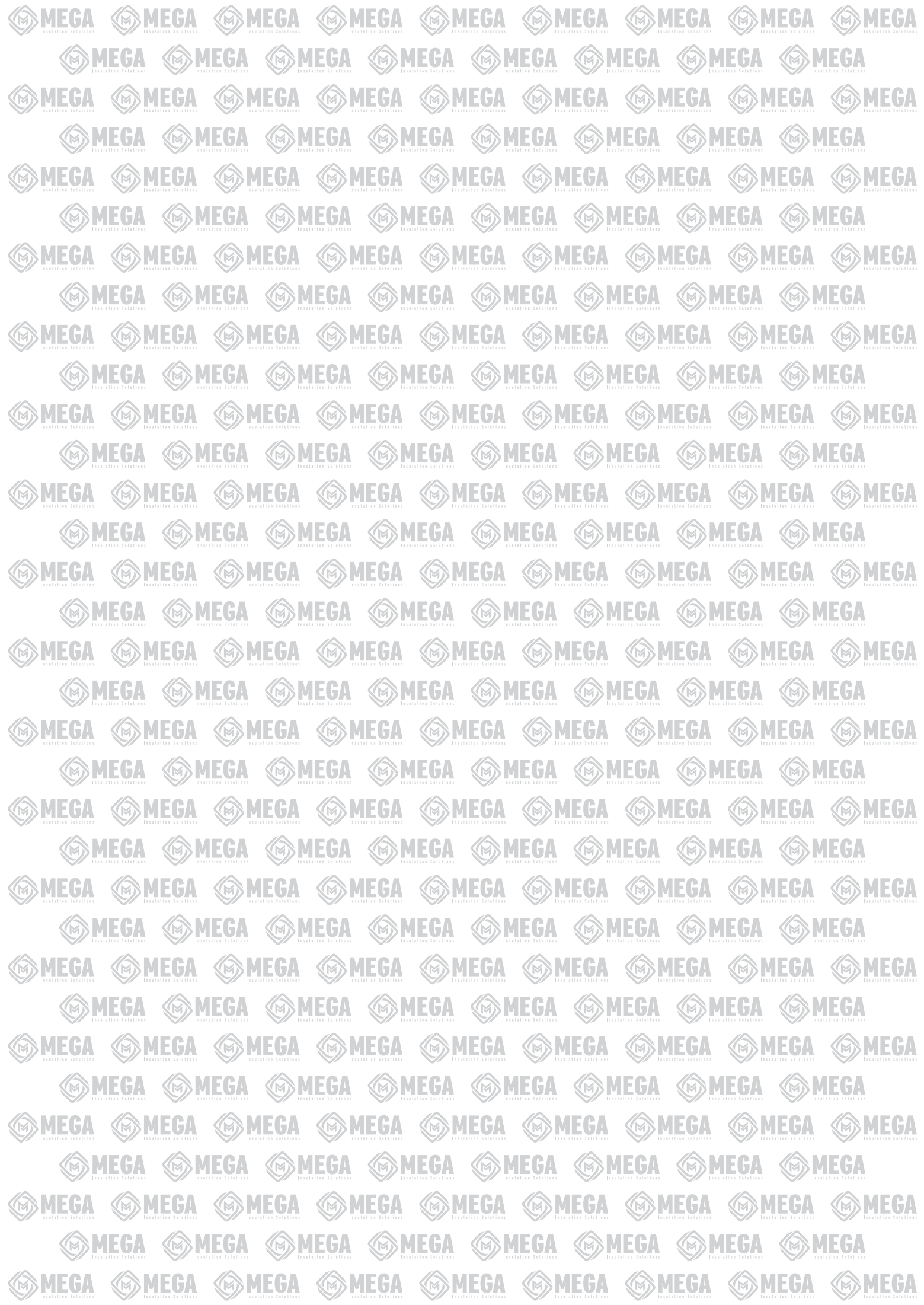
# Mega Insulation Solutions

## XPS

### UNDER PARQUET XPS



Özellikler Features	Sembol Symbol	Birim Unit	Tanım Declaration Value								Tolerans Tolerance	Standart Standard
Yangın Sınıfı Reaction to Fire Class	-	-	E								-	TS EN 13501-1
Kalınlık Tolerans Sınıfı Thickness Tolerance Class	T	mm	T1 & T3								1500-2000 -1/+1 2500-3000 -2/+3	TS EN 823
Genişlik Width	W	mm	600								≤1500 (±8) >1500 (±10)	TS EN 822
Uzunluk Length	L	mm	1200								≤1500 (±8) >1500 (±10)	TS EN 822
Gönyeden Sapma (Uzunluk/Genişlik) Deviations from Mitre (length / width)	Sb	mm/m	S5								5 mm	TS EN 824
Düzlükten Sapma Surface Smoothness	Smax	mm	S6 - max 6 mm								6 mm	TS EN 825
Isı İletkenlik Değeri Thermal Conductivity Declared Value	λD	W/mK	T1500 0,038	T2000 0,037	T2500 0,036	T3000 0,035					-	TS EN 13164
Kalınlık Thickness	d	mm	20	30	40	50	60	70	80	-	TS EN 823	
Isıl Geçirgenlik Direnci Thermal Resistance	R <sub>0</sub>	W/m <sup>2</sup> K	T1500 0,5	T1500 0,75	T1500 1,05	T1500 1,3	T1500 1,55	T1500 1,8	T1500 2,1	-	TS EN 13164	
			T2000 0,5	T2000 0,8	T2000 1,05	T2000 1,35	T2000 1,6	T2000 1,85	T2000 2,15			
			T2500 0,55	T2500 0,8	T2500 1,1	T2500 1,35	T2500 1,65	T2500 1,9	T2500 2,2			
			T3000 0,55	T3000 0,85	T3000 1,1	T3000 1,4	T3000 1,7	T3000 2	T3000 2,25			
%10 Deformasyondaki Basınç Gerilmesi Compressive Strength at 10% Deformation	CS(10)Y	kPa	CS(10)150 150≥	CS(10)200 200≥	CS(10)250 250≥	CS(10)300 300≥					-	TS EN 826
Azami Kullanım Sıcaklığı Maximum Operating Temperature	-	°C	-50/75								-	-
Tamamen Daldırmayla Uzun Dönemli Su Emme Long Term Water Absorption by Immersion Completely	WL(T)	%	WL(T)0,7								≤0,7	TS EN 12087
Belirli Sıcaklık ve Nem Şartları Altında Boyut Kararlılığı Specified in the Dimensional Stability of Temperature and Humidity Conditions	DS (23,90)	%	23°C'de ve %90 bağıl nem şartlarında 48 saat sonra At 23°C and %90±5 relative humidity, after 48 hours								Azami 2 max 2	TS EN 1604
Belirli Basınç Yükü ve Sıcaklık Şartlarındaki Şekil Değiştirme Specified compressive load and temperature Conditions of the Dimensional Stability	DLT(1)5	%	80±1°C'de, 20 kPa basınç altında 48±1 saat sonra At 80±1°C and 20 kPa at a pressure, after 48±1 hours								≤5	TS EN 1605
Yüzey Şekli Surface Shape			Düz / Pürüzlü Kanallı / Parke Altı Flat / Rough Channel / Under Parquet									
Kenar Profili Edge profile			Düz / Lamba Square 7 Ship - Lap									



 **EPS**<sup>®</sup>  
Expanded Polystyrene





## WHAT IS EPS?

EPS- Expanded Polystyren Foam, Expanded Polystyrene Hard Foam (EPS Expanded Polystyren Foam) is a thermal insulation material produced as a result of the contact of polystyrene raw material obtained from petroleum by the polymerization of styrene monomer with water vapor, by inflating the granules of pentane gas contained in the raw material granules and adhering to each other.

It is produced in different form and plate form in different sizes and structural features, depending on the area and purpose of use.

## HOW IS EPS PRODUCED?

Pentane, which is an organic component, replaces with air during production and in a very short time after the production of many small pores in the particles.

The released pentane gas turns into CO<sub>2</sub> and water vapor in the atmosphere. With the release of the pentane, stagnant air is trapped inside the numerous small closed porous cells within the material. After the material is supplied as raw material in small particles, it undergoes pre-inflation.

Meanwhile, pentane gas in the particles is replaced by air, and the desired density of the material is largely achieved at this stage. Then the expanded particles, which are rested in special silos, are ensured to fuse with each other with the help of water vapor in the mold and gain the properties of the material.

## WHAT ARE THE USAGE AREAS?

EPS products are used extensively in the form of plates, pipes or pre-shaped elements, in the heat and acoustic insulation of buildings and in the packaging industry. EPS products are also not possible to be counted from the use of wall materials in buildings to the insulation of cold stores, road construction in cold regions, reinforcement of floors, life buoy and life jacket for ships; There is unlimited usage in all applications where lightness, strength, easy shaping, easy application and low thermal conductivity are important.

## What are the General Features and Advantages?

- Despite its superior performance, the use of low energy in its production is another important reason why it is economical. In addition to the effective mechanical resistance, the swelling gas is replaced with air in a very short time, ensuring that the performance of the product remains constant throughout its lifetime.
- Its thickness does not decrease, its thermal conductivity does not increase, its mechanical properties do not change, and its other properties do not deteriorate over time.
- Since it is closed porous, water absorption rate is very low. Water vapor diffusion resistance factor is 20-100 depending on the density.
- It is very light, easy to carry, easy to shape and easy to apply.
- Its density can be changed over a wide range, so that all its properties can be controlled as desired over a wide range.
- Thermal conductivity declaration value is  $0.031 \leq \lambda \leq 0.040 \text{ W / mK}$
- Besides all these features, EPS is an environmentally friendly material since it is 100% recyclable and the materials it contains do not harm the atmosphere and ozone layer. Pentane is an organic gas and is not harmful to human health and the environment. It does not contain ozone layer damaging chlorofluorocarbon and its derivatives (CFC, HCFC). It is a 100% recycled material and does not produce waste that will pollute the environment both during the production phase and later stages. It is resistant to bacteria growth. It does not require personal protectors and special security measures during application and production stages. Special types of EPS are also a product that can be used even in food packaging and are not harmful to human health.



# Mega Insulation Solutions

## EPS

### MEGA EPS W

## WHITE EPS THERMAL INSULATION BOARD



Mega Insulation Solutions EPS boards are white, closed porous thermal insulation boards. It is kept until it has dimensional stability in closed environment. It has high compressive strength and insulation.

Polystyrene raw material occurs as a result of contact with water vapor, as the pentane gas contained in the raw material granules swells and adheres the granules.

### Usage Areas

- In the thermal insulation (contact facade) of the outer walls,
- Under siding applications,
- In the thermal insulation of inclined and terrace roofs and terrace gardens in the buildings
- In the thermal insulation of the floors in the buildings
- In the thermal insulation of the overhangs in the buildings
- In the thermal insulation of the ceilings in the buildings
- In the sound insulation of the floating floors in the buildings it is used in thermal insulation of cold storage tanks
- In dilatation joints
- In hollow construction
- In order to increase ground strength by filling in loose floors
- It is used for duct, tank, warehouse insulation, buildings for other purposes.

### Stock and Storage Conditions

- If possible, the materials should be stacked in a closed environment on low slope, protected from water, on flush wooden blocks.
- Panel packages should not be stacked. If stacked in open environment, nylon or tarpaulin should be covered so as not to interrupt the air flow and form a pool to protect it from water. Sheets should be protected from the sun as well as protected from water.
- Ingredients in packages; a crane should be used if possible at the construction site or on the roof. As the pallet sizes and sizes vary, the appropriate forklift or crane should be selected. If pallets are to be transported by crane, steel or chain ropes should never be used, and flat ropes (nylon, hemp, silk) should be preferred.
- Wooden wedges should be placed where the ropes come from and their edges should be protected. Wedges should overflow 3.5 cm from the pallets. If a forklift is to be used; If the pallet length is over 6 m, a wide fork lift truck should be used.

# Mega Insulation Solutions

## EPS

### MEGA EPS 30W

### WHITE EPS THERMAL INSULATION BOARD



Ürünün Tipi / Kullanım Alanı Product Type / Usage Area	EPS 30W BEYAZ EPS 30W WHITE													
Özellikler Features	Beyan Sembolü Declaration Symbol	Birim Unit	Tanım Definition										Tolerans Tolerance	Ref. Standart Ref. Standard
Genişlik / Uzunluk Width / Length	W/L	mm	500 / 1000										±3 (W3) ±3 (L3)	TS EN 822
Kalınlık Thickness	D	mm	10	20	30	40	50	60	70	80	90	100	±2 (T2)	TS EN 823
Yangın Sınıfı Reaction to Fire Class	-	-	E										-	TS EN 13501-1
Gönyeden Sapma Deviations from Mitre (Length / Width)	S	mm/m	Sb(5)										±5	TS EN 824
Yüzey Düzgünlüğü Surface Smoothness	P	mm/m	P(5)										±5	TS EN 825
Bükme Dayanımı Bending Strength	BS	kPa	BS50										-	TS EN 12089
%10 Deformasyondaki Basma Gerilmesi Compressive Strength at 10% Deformation	CS(10)	kPa	CS(10)30										-	TS EN 826
Dinlendirme Süresi Resting Time	-	-	7 Gün Blok, 21 Gün Levha Olarak Dinlendirilir Block Stand For 7 Days, Plate Stand For 7 Days										-	-
Ambalaj Malzemesi The Packaging Material	-	-	Poliyeten Film Polythene Film										-	-
Ambalaj Miktarı (Levha Adedi/Hacmi) Amount of Packaging (The Number Plate / Package Volume)	-	Adet/m <sup>3</sup>	50/0,25	25/0,25	16/0,24	12/0,24	10/0,25	8/0,24	7/0,245	6/0,24	6/0,27	5/0,25	-	-



# Mega Insulation Solutions

## EPS

MEGA EPS 40W / 40U-W / 50W

WHITE EPS THERMAL INSULATION BOARD



Ürünün Tipi / Kullanım Alanı Product Type / Usage Area	EPS 40W / 40U-W / 50W BEYAZ EPS 40W / 40U-W / 50W WHITE													
Özellikler Features	Beyan Sembolü Declaration Symbol	Birim Unit	Tanım Definition										Tolerans Tolerance	Ref. Standart Ref. Standard
Genişlik / Uzunluk Width / Length	W/L	mm	500 / 1000										±3 / ±3	TS EN 822
Kalınlık Thickness	T	mm	10	20	30	40	50	60	70	80	90	100	±2	TS EN 823
Yangın Sınıfı Reaction to Fire Class	-	-	E										-	TS EN 13501-1
Isıl İletkenlik Katsayısı (10 °C) Thermal Conductivity Declared Value	λ <sub>0</sub>	W/mK	EPS 40W 0,041			EPS 40U-W 0,042			EPS 50W 0,040			-	TS EN 13163	
Isıl İletim Direnci Thermal Resistance	R <sub>0</sub>	m <sup>2</sup> K/W	EPS 40W										-	TS EN 13163
			0,20	0,45	0,70	0,95	1,20	1,45	1,70	1,95	2,15	2,40		
			EPS 40U-W											
Isıl İletim Direnci Thermal Resistance	R <sub>0</sub>	m <sup>2</sup> K/W	EPS 40U-W										-	TS EN 13163
			0,20	0,45	0,70	0,95	1,15	1,40	1,65	1,90	2,10	2,35		
			EPS 50W											
	R <sub>0</sub>	m <sup>2</sup> K/W	EPS 50W										-	TS EN 13163
			0,25	0,50	0,75	1,00	1,25	1,50	1,75	2,00	2,25	2,50		
			-											
Azami Hizmet Sıcaklığı Maximum Operating Temperature	-	°C	-50 / +70										-	-
Gönyeden Sapma Deviations from Mitre (Length / Width)	S	mm/m	Sb(5)										±5	TS EN 824
Yüzey Düzgünlüğü Surface Smoothness	P	mm/m	P(5)										±5	TS EN 825
Boyut Kararlılığı Dimensional Stability	DS(N)	%	DS(N)5										± %0,5	TS EN 1603
Bükme Dayanımı Bending Strength	BS	kPa	BS75										-	TS EN 12089
%10 Deformasyondaki Basma Gerilmesi Compressive Strength at 10% Deformation	CS(10)	kPa	EPS 40W CS(10)40			EPS 40U-W CS(10)40			EPS 50W CS(10)50			-	TS EN 826	
Yüzeyle Dik Çekme Dayanımı Tensile Strength Perpendicular to Faces	TR	kPa	EPS 40W TR60			EPS 40U-W TR50			EPS 50W TR70			-	TS EN 1607	
Tam Daldırmayla Uzun Süreli Su Absorpsiyonu Long Term Water Absorption by Immersion Completely	WL(T)	%	EPS 40W WL(T)5			EPS 40U-W WL(T)6			EPS 50W WL(T)5			EPS 40-50W ≤ %5	EPS 40U-W ≤ %6	TS EN 12087
Belirli Sıcaklık ve Nem Şartları Altında Boyut Kararlılığı Specified in the Dimensional Stability of Temperature and Humidity Conditions	DS(TH)	%	EPS 40W DS(70,-)5			EPS 40U-W DS(70,-)5			EPS 50W DS(70,-)3			EPS 40-40U %5	EPS 50W %3	TS EN 1604
Dinlendirme Süresi Resting Time	-	-	7 Gün Blok, 21 Gün Levha Olarak Dinlendirilir Block Stand For 7 Days, Plate Stand For 7 Days										-	-
Ambalaj Malzemesi The Packaging Material	-	-	Polietilen Film Polythene Film										-	-
Ambalaj Miktarı (Levha Adedi/Hacmi) Amount of Packaging (The Number Plate / Package Volume)	-	Adet/m <sup>3</sup>	50/0,25	25/0,25	16/0,24	12/0,24	10/0,25	8/0,24	7/0,245	6/0,24	6/0,27	5/0,25	-	-

# Mega Insulation Solutions

## EPS

MEGA EPS 60W / 80W / 90W

WHITE EPS THERMAL INSULATION BOARD



Ürünün Tipi / Kullanım Alanı Product Type / Usage Area	EPS 60W / 80W / 90W BEYAZ EPS 60W / 80W / 90W WHITE																		
Özellikler Features	Beyan Sembolü Declaration Symbol	Birim Unit	Tanım Definition											Tolerans Tolerance		Ref. Standart Ref. Standard			
Genişlik / Uzunluk Width / Length	W/L	mm	500 / 1000											±3 / ±3		TS EN 822			
Kalınlık Thickness	T	mm	10	20	30	40	50	60	70	80	90	100	±2		TS EN 823				
Yangın Sınıfı Reaction to Fire Class	-	-	E											-		TS EN 13501-1			
Isıl İletkenlik Katsayısı (10 °C) Thermal Conductivity Declared Value	λ <sub>D</sub>	W/mK	EPS 60W 0,039			EPS 80W 0,038			EPS 90W 0,037					-		TS EN 13163			
Isı İletim Direnci Thermal Resistance	R <sub>0</sub>	m <sup>2</sup> K/W	EPS 60W											-		TS EN 13163			
			0,25	0,50	0,75	1,00	1,25	1,50	1,75	2,05	2,30	2,55							
			EPS 80W																
Isı İletim Direnci Thermal Resistance			0,25	0,50	0,75	1,05	1,30	1,55	1,80	2,10	2,35	2,60							
			EPS 90W																
			0,25	0,50	0,80	1,05	1,35	1,60	1,85	2,15	2,40	2,70							
Azami Hizmet Sıcaklığı Maximum Operating Temperature	-	°C	-50 / +70											-		-			
Gönyeden Sapma Deviations from Mitre (Length / Width)	S	mm/m	Sb(5)											±5		TS EN 824			
Yüzey Düzgünlüğü Surface Smoothness	P	mm/m	P(5)											±5		TS EN 825			
Boyut Kararlılığı Dimensional Stability	DS(N)	%	DS(N)2											± %0,2		TS EN 1603			
Bükme Dayanımı Bending Strength	BS	kPa	EPS 60W BS100			EPS 80W BS125			EPS 90W BS135					-		TS EN 12089			
%10 Deformasyondaki Basma Gerilmesi Compressive Strength at 10% Deformation	CS(10)	kPa	EPS 60W CS(10)60			EPS 80W CS(10)80			EPS 90W CS(10)90					-		TS EN 826			
Yüzele Dik Çekme Dayanımı Tensile Strength Perpendicular to Faces	TR	kPa	EPS 60W TR80			EPS 80W TR100			EPS 90W TR100					-		TS EN 1607			
Tam Daldırma ile Uzun Süreli Su Absorpsiyonu Long Term Water Absorption by Immersion Completely	WL(T)	%	EPS 60W WL(T)4			EPS 80W WL(T)3			EPS 90W WL(T)3					EPS 60W ≤ %4		EPS 80-90W ≤ %3		TS EN 12087	
Belirli Sıcaklık ve Nem Şartları Altında Boyut Kararlılığı Specified in the Dimensional Stability of Temperature and Humidity Conditions	DS(TH)	%	EPS 60W DS(70,-)3			EPS 80W DS(70,-)2			EPS 90W DS(70,-)2					EPS 60W %3		EPS 80-90W %2		TS EN 1604	
Dinlendirme Süresi Resting Time	-	-	7 Gün Blok, 21 Gün Levha Olarak Dinlendirilir Block Stand For 7 Days, Plate Stand For 7 Days											-		-			
Ambalaj Malzemesi The Packaging Material	-	-	Polietilen Film Polythene Film											-		-			
Ambalaj Miktarı (Levha Adedi/Hacmi) Amount of Packaging (The Number Plate / Package Volume)	-	Adet/m <sup>3</sup>	50/0,25	25/0,25	16/0,24	12/0,24	10/0,25	8/0,24	7/0,245	6/0,24	6/0,27	5/0,25	-		-				

# Mega Insulation Solutions

## EPS

MEGA EPS 100W / 110W / 120W

WHITE EPS THERMAL INSULATION BOARD



Ürünün Tipi / Kullanım Alanı Product Type / Usage Area	EPS 100W / 110W / 120W BEYAZ EPS 100W / 110W / 120W WHITE													
Özellikler Features	Beyan Sembolü Declaration Symbol	Birim Unit	Tanım Definition										Tolerans Tolerance	Ref. Standart Ref. Standard
Genişlik / Uzunluk Width / Length	W/L	mm	500 / 1000										±3 / ±3	TS EN 822
Kalınlık Thickness	T	mm	10	20	30	40	50	60	70	80	90	100	±2	TS EN 823
Yangın Sınıfı Reaction to Fire Class	-	-	E										-	TS EN 13501-1
Isıl İletkenlik Katsayısı (10 °C) Thermal Conductivity Declared Value	λ <sub>D</sub>	W/mK	EPS 100W 0,036			EPS 110W 0,036			EPS 120W 0,034			-	TS EN 13163	
Isıl İletim Direnci Thermal Resistance	R <sub>0</sub>	m <sup>2</sup> K/W	EPS 100W / EPS 110W										-	TS EN 13163
Isıl İletim Direnci Thermal Resistance			0,25	0,55	0,80	1,10	1,35	1,65	1,90	2,20	2,50	2,75		
			EPS 120W											
			0,25	0,55	0,85	1,15	1,45	1,75	2,05	2,35	2,60	2,90		
Azami Hizmet Sıcaklığı Maximum Operating Temperature	-	°C	-50 / +70										-	-
Gönyeden Sapma Deviations from Mitre (Length / Width)	S	mm/m	Sb(5)										±5	TS EN 824
Yüzey Düzgünlüğü Surface Smoothness	P	mm/m	P(5)										±5	TS EN 825
Boyut Kararlılığı Dimensional Stability	DS(N)	%	DS(N)2										±%0,2	TS EN 1603
Bükme Dayanımı Bending Strength	BS	kPa	EPS 100W BS150			EPS 110W BS170			EPS 120W BS200			-	TS EN 12089	
%10 Deformasyondaki Basma Gerilmesi Compressive Strength at 10% Deformation	CS(10)	kPa	EPS 100W CS(10)100			EPS 110W CS(10)110			EPS 120W CS(10)120			-	TS EN 826	
Yüzelere Dik Çekme Dayanımı Tensile Strength Perpendicular to Faces	TR	kPa	EPS 100W TR100			EPS 110W TR100			EPS 120W TR150			-	TS EN 1607	
Tam Daldırma ile Uzun Süreli Su Absorpsiyonu Long Term Water Absorption by Immersion Completely	WL(T)	%	EPS 100W WL(T)3			EPS 110W WL(T)3			EPS 120W WL(T)2			EPS 100/110W ≤%3	EPS 120W ≤%2	TS EN 12087
Belirli Sıcaklık ve Nem Şartları Altında Boyut Kararlılığı Specified in the Dimensional Stability of Temperature and Humidity Conditions	DS(TH)	%	DS(70,-)2										%2	TS EN 1604
Dinlendirme Süresi Resting Time	-	-	7 Gün Blok, 21 Gün Levha Olarak Dinlendirilir Block Stand For 7 Days, Plate Stand For 7 Days										-	-
Ambalaj Malzemesi The Packaging Material	-	-	Polietilen Film Polythene Film										-	-
Ambalaj Miktarı (Levha Adedi/Hacmi) Amount of Packaging (The Number Plate / Package Volume)	-	Adet/m <sup>3</sup>	50/0,25	25/0,25	16/0,24	12/0,24	10/0,25	8/0,24	7/0,245	6/0,24	6/0,27	5/0,25	-	-

# Mega Insulation Solutions

## EPS

### MEGA EPS G

### GREY EPS THERMAL INSULATION BOARD



Mega Insulation Solutions EPS boards are closed porous thermal insulation boards in black - gray white color. It is kept until it has dimensional stability in closed environment. It has high compressive strength and insulation. Polystyrene raw material occurs as a result of contact with water vapor, as the pentane gas contained in the raw material granules swells and adheres the granules.

## Usage Areas

- In the thermal insulation (contact facade) of the outer walls,
- Under the application of the Yalid Printing (Siding),
- In the thermal insulation of the inclined and terrace roofs and terrace gardens in the buildings,
- In the thermal insulation of the floors in the buildings,
- In the thermal insulation of the overhangs in the buildings,
- In the thermal insulation of the ceilings in the buildings,
- In the sound insulation of the floating floors in the buildings it is used in thermal insulation of cold storage tanks,
- In dilatation joints,
- In hollow construction,
- In order to increase ground strength by filling in loose floors,
- It is used for duct, tank, warehouse insulation, buildings for other purposes.

## Stock and Storage Conditions

- If possible, the materials should be stacked in a closed environment on low slope, protected from water, on flush wooden blocks. Pallets should not be stacked.
- If stacked in open environment, nylon or tarpaulin should be covered so as not to interrupt the air flow and create a pool to protect it from water. Sheets should be protected from the sun as well as protected from water.
- Materials are in packages; a crane should be used if possible at the construction site or on the roof. As the pallet sizes and sizes vary, the appropriate forklift or crane should be selected.
- If pallets are to be transported by crane, steel or chain ropes should never be used, and flat ropes (nylon, hemp, silk) should be preferred. Wooden wedges should be placed where the ropes come from and their edges should be protected. Wedges should overflow 3.5 cm from the pallets. If a forklift is to be used; If the pallet length is over 6 m, a wide fork lift truck should be used.

# Mega Insulation Solutions

## EPS

MEGA EPS 30P-G / 30U-G

GREY EPS THERMAL INSULATION BOARD



Ürünün Tipi / Kullanım Alanı Product Type / Usage Area	EPS 30P-G / 30U-G Karbon Takviyeli EPS 30P-G / 30U-G Carbon Reinforced													
Özellikler Features	Beyan Sembolü Declaration Symbol	Birim Unit	Tanım Definition									Tolerans Tolerance	Ref. Standart Ref. Standard	
Genişlik / Uzunluk Width / Length	W/L	mm	500 / 1000									± 3 / ± 3	TS EN 822	
Kalınlık Thickness	T	mm	10	20	30	40	50	60	70	80	90	100	± 2	TS EN 823
Yangın Sınıfı Reaction to Fire Class	-	-	E									-	TS EN 13501-1	
Isıl İletkenlik Katsayısı (10 °C) Thermal Conductivity Declared Value	λ <sub>D</sub>	W/mK	EPS 30P-G 0,035				EPS 30U-G 0,036				-	TS EN 13163		
Isı İletim Direnci Thermal Resistance	R <sub>D</sub>	m <sup>2</sup> K/W	EPS 30P-G									-	TS EN 13163	
Isı İletim Direnci Thermal Resistance			0,25	0,55	0,85	1,10	1,40	1,70	2,00	2,25	2,55			2,85
			EPS 30U-G											
			0,25	0,55	0,80	1,10	1,35	1,65	1,90	2,20	2,50	2,75		
Azami Hizmet Sıcaklığı Maximum Operating Temperature	-	°C	-50 / +70									-	-	
Gönyeden Sapma Deviations from Mitre (Length / Width)	S	mm/m	Sb(5)									± 5	TS EN 824	
Yüzey Düzgünlüğü Surface Smoothness	P	mm/m	P(5)									± 5	TS EN 825	
Boyut Kararlılığı Dimensional Stability	DS(N)	%	DS(N)5									± %0,5	TS EN 1603	
Bükme Dayanımı Bending Strength	BS	kPa	BS50									-	TS EN 12089	
%10 Deformasyondaki Basma Gerilmesi Compressive Strength at 10% Deformation	CS(10)	kPa	CS(10)30									-	TS EN 826	
Yüzeyle Dik Çekme Dayanımı Tensile Strength Perpendicular to Faces	TR	kPa	EPS 30P-G TR60				EPS 30U-G TR50				-	TS EN 1607		
Tam Daldırma ile Uzun Süreli Su Absorpsiyonu Long Term Water Absorption by Immersion Completely	WL(T)	%	EPS 30P-G WL(T)5				EPS 30U-G WL(T)6				EPS 30P-G ≤%5	EPS 30U-G ≤%6	TS EN 12087	
Belirli Sıcaklık ve Nem Şartları Altında Boyut Kararlılığı Specified in the Dimensional Stability of Temperature and Humidity Conditions	DS(TH)	%	DS(70,-)5									%5	TS EN 1604	
Dinlendirme Süresi Resting Time	-	-	7 Gün Blok, 21 Gün Levha Olarak Dinlendirilir Block Stand For 7 Days, Plate Stand For 7 Days									-	-	
Ambalaj Malzemesi The Packaging Material	-	-	Polietilen Film Polythene Film									-	-	
Ambalaj Miktarı (Levha Adedi/Hacmi) Amount of Packaging (The Number Plate / Package Volume)	-	Adet/m <sup>3</sup>	50/0,25	25/0,25	16/0,24	12/0,24	10/0,25	8/0,24	7/0,245	6/0,24	6/0,27	5/0,25	-	-

# Mega Insulation Solutions

## EPS

MEGA EPS 40U / 40G

GREY EPS THERMAL INSULATION BOARD



Ürünün Tipi / Kullanım Alanı Product Type / Usage Area	EPS 40U / 40G Karbon Takviyeli EPS 40U / 40G Carbon Reinforced													
Özellikler Features	Beyan Sembolü Declaration Symbol	Birim Unit	Tanım Definition									Tolerans Tolerance	Ref. Standart Ref. Standard	
Genişlik / Uzunluk Width / Length	W/L	mm	500 / 1000									±3 / ±3	TS EN 822	
Kalınlık Thickness	T	mm	10	20	30	40	50	60	70	80	90	100	±2	TS EN 823
Yangın Sınıfı Reaction to Fire Class	-	-	E									-	TS EN 13501-1	
Isıl İletkenlik Katsayısı (10 °C) Thermal Conductivity Declared Value	λ <sub>D</sub>	W/mK	EPS 40U 0,033				EPS 40G 0,034				-	TS EN 13163		
Isı İletim Direnci Thermal Resistance	R <sub>D</sub>	m <sup>2</sup> K/W	EPS 40U									-	TS EN 13163	
Isı İletim Direnci Thermal Resistance			0,30	0,60	0,90	1,20	1,50	1,80	2,10	2,40	2,70			3,00
Azami Hizmet Sıcaklığı Maximum Operating Temperature	-	°C	-50 / +70									-	-	
Gönyeden Sapma Deviations from Mitre (Length / Width)	S	mm/m	Sb(5)									±5	TS EN 824	
Yüzey Düzgünlüğü Surface Smoothness	P	mm/m	P(5)									±5	TS EN 825	
Boyut Kararlılığı Dimensional Stability	DS(N)	%	EPS 40U DS(N)2				EPS 40G DS(N)5				EPS 40U ± %0,2	EPS 40G ± %0,5	TS EN 1603	
Bükme Dayanımı Bending Strength	BS	kPa	BS75									-	TS EN 12089	
%10 Deformasyondaki Basma Gerilmesi Compressive Strength at 10% Deformation	CS(10)	kPa	CS(10)40									-	TS EN 826	
Yüzeyle Dik Çekme Dayanımı Tensile Strength Perpendicular to Faces	TR	kPa	EPS 40U TR100				EPS 40G TR100				-	TS EN 1607		
Tam Daldırma ile Uzun Süreli Su Absorpsiyonu Long Term Water Absorption by Immersion Completely	WL(T)	%	EPS 40U WL(T)4				EPS 40G WL(T)5				EPS 40U ≤ %4	EPS 40G ≤ %5	TS EN 12087	
Belirli Sıcaklık ve Nem Şartları Altında Boyut Kararlılığı Specified in the Dimensional Stability of Temperature and Humidity Conditions	DS(TH)	%	DS(70,-)3									%3	TS EN 1604	
Dinlendirme Süresi Resting Time	-	-	7 Gün Blok, 21 Gün Levha Olarak Dinlendirilir Block Stand For 7 Days, Plate Stand For 7 Days									-	-	
Ambalaj Malzemesi The Packaging Material	-	-	Polietilen Film Polythene Film									-	-	
Ambalaj Miktarı (Levha Adedi/Hacmi) Amount of Packaging (The Number Plate / Package Volume)	-	Adet/m <sup>3</sup>	50/0,25	25/0,25	16/0,24	12/0,24	10/0,25	8/0,24	7/0,245	6/0,24	6/0,27	5/0,25	-	-

# Mega Insulation Solutions

## EPS

MEGA EPS 50 - 60 - 70

GREY EPS THERMAL INSULATION BOARD



Ürünün Tipi / Kullanım Alanı Product Type / Usage Area	EPS 50-60-70 Karbon Takviyeli EPS 50-60-70 Carbon Reinforced														
Özellikler Features	Beyan Sembolü Declaration Symbol	Birim Unit	Tanım Definition									Tolerans Tolerance	Ref. Standart Ref. Standard		
Genişlik / Uzunluk Width / Length	W/L	mm	500 / 1000									± 3 / ± 3	TS EN 822		
Kalınlık Thickness	T	mm	10	20	30	40	50	60	70	80	90	100	± 2	TS EN 823	
Yangın Sınıfı Reaction to Fire Class	-	-	E									-	TS EN 13501-1		
Isıl İletkenlik Katsayısı (10 °C) Thermal Conductivity Declared Value	λ <sub>D</sub>	W/mK	EPS 50 0,032			EPS 60 0,032			EPS 70 0,031			-	TS EN 13163		
Isı İletim Direnci Thermal Resistance	R <sub>D</sub>	m <sup>2</sup> K/W	EPS 50 / EPS 60									-	TS EN 13163		
Isı İletim Direnci Thermal Resistance			0,30	0,60	0,90	1,25	1,55	1,85	2,15	2,50	2,80			3,10	
			EPS 70												
			0,30	0,60	0,95	1,25	1,60	1,90	2,25	2,55	2,90	3,20			
Azami Hizmet Sıcaklığı Maximum Operating Temperature	-	°C	-50 / +70									-	-		
Gönyeden Sapma Deviations from Mitre (Length / Width)	S	mm/m	Sb(5)									± 5	TS EN 824		
Yüzey Düzgünlüğü Surface Smoothness	P	mm/m	P(5)									± 5	TS EN 825		
Boyut Kararlılığı Dimensional Stability	DS(N)	%	DS(N)2									± %0,2	TS EN 1603		
Bükme Dayanımı Bending Strength	BS	kPa	EPS 50 EPS 60			BS100			EPS 70			BS125		-	TS EN 12089
%10 Deformasyondaki Basma Gerilmesi Compressive Strength at 10% Deformation	CS(10)	kPa	EPS 50 CS(10)50			EPS 60 CS(10)60			EPS 70 CS(10)70			-	TS EN 826		
Yüzeyle Dik Çekme Dayanımı Tensile Strength Perpendicular to Faces	TR	kPa	TR100									-	TS EN 1607		
Tam Daldırma ile Uzun Süreli Su Absorpsiyonu Long Term Water Absorption by Immersion Completely	WL(T)	%	WL(T)4									≤%4	TS EN 12087		
Belirli Sıcaklık ve Nem Şartları Altında Boyut Kararlılığı Specified in the Dimensional Stability of Temperature and Humidity Conditions	DS(TH)	%	DS(70,-)2									%2	TS EN 1604		
Dinlendirme Süresi Resting Time	-	-	7 Gün Blok, 21 Gün Levha Olarak Dinlendirilir Block Stand For 7 Days, Plate Stand For 7 Days									-	-		
Ambalaj Malzemesi The Packaging Material	-	-	Polietilen Film Polythene Film									-	-		
Ambalaj Miktarı (Levha Adedi/Hacmi) Amount of Packaging (The Number Plate / Package Volume)	-	Adet/m <sup>3</sup>	50/0,25	25/0,25	16/0,24	12/0,24	10/0,25	8/0,24	7/0,245	6/0,24	6/0,27	5/0,25	-	-	

# Mega Insulation Solutions

## EPS

### MEGA EPS BOARD

### EPS INSULATION BOARD



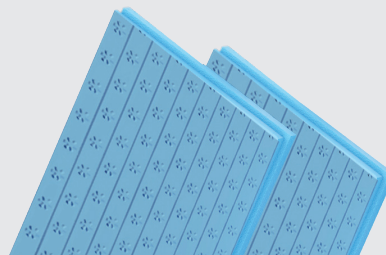
Mega Insulation Solutions EPS BOARD is an insulation board that combines superior mechanical properties and insulation. EPS BOARD, which has a channeled surface on one side and patterned channel on four sides and a lamp side on four sides; it can capable of providing high adherence where it is applied with its surface shape and eliminating heat bridges with its edge shape.

## Usage Areas

- External walls.
- Cold stores.
- Under plastered insulation (plastered) in plastered facade systems. (Contact Facade).

## Stock and Storage Conditions

- If possible, the materials should be stacked in a closed environment on low slope, protected from water, on flush wooden blocks. Pallets should not be stacked.
- If stacked in open environment, nylon or tarpaulin should be covered so as not to interrupt the air flow and create a pool to protect it from water. Sheets should be protected from the sun as well as protected from water.
- Materials are in packages; a crane should be used if possible at the construction site or on the roof. As the pallet sizes and sizes vary, the appropriate forklift or crane should be selected.
- If pallets are to be transported by crane, steel or chain ropes should never be used, and flat ropes (nylon, hemp, silk) should be preferred. Wooden wedges should be placed where the ropes come from and their edges should be protected. Wedges should overflow 3.5 cm from the pallets. If a forklift is to be used; If the pallet length is over 6 m, a wide forklift truck should be used.





# Mega Insulation Solutions

## EPS

### MEGA EPS BOARD 80 - 100

### EPS INSULATION BOARD



Ürünün Tipi / Kullanım Alanı Product Type / Usage Area	EPS BOARD 80 / 100 EPS BOARD 80 / 100					
Özellikler Features	Beyan Sembolü Declaration Symbol	Birim Unit	Tanım Definition		Tolerans Tolerance	Ref. Standart Ref. Standard
Genişlik / Uzunluk Width / Length	W/L	mm	600 / 1200		± 3 / ± 3	TS EN 822
Kalınlık Thickness	T	mm	30 / 40 / 50		± 2	TS EN 823
Yangın Sınıfı Reaction to Fire Class	-	-	E		-	TS EN 13501-1
Isıl İletkenlik Katsayısı (10 °C) Thermal Conductivity Declared Value	$\lambda_0$	W/mK	EPS 80 / 0,038	EPS 100 / 0,036	-	TS EN 13163
Azami Hizmet Sıcaklığı Maximum Operating Temperature	-	°C	-50 / +70		-	-
Gönyeden Sapma Deviations from Mitre (Lenght / Width)	S	mm/m	Sb(5)		± 5	TS EN 824
Yüzey Düzgünlüğü Surface Smoothness	P	mm/m	P(5)		± 5	TS EN 825
Boyut Kararlılığı Dimensional Stability	DS(N)	%	DS(N)2		± %0,2	TS EN 1603
Bükme Dayanımı Bending Strength	BS	kPa	EPS 80 / BS125	EPS 100 / BS150	-	TS EN 12089
%10 Deformasyondaki Basma Gerilmesi Compressive Strength at 10% Deformation	CS(10)	kPa	EPS 80 / CS(10)80	EPS 100 / CS(10)100	-	TS EN 826
Yüzeyle Dik Çekme Dayanımı Tensile Strength Perpendicular to Faces	TR	kPa	TR100		-	TS EN 1607
Tam Daldırma ile Uzun Süreli Su Absorpsiyonu Long Term Water Absorption by Immersion Completely	WL(T)	%	WL(T)4		≤%4	TS EN 12087
Belirli Sıcaklık ve Nem Şartları Altında Boyut Kararlılığı Specified in the Dimensional Stability of Temperature and Humidity Conditions	DS(TH)	%	DS(70,-)2		%2	TS EN 1604
Ambalaj Malzemesi The Packaging Material	-	-	Poliyeten Film		-	-

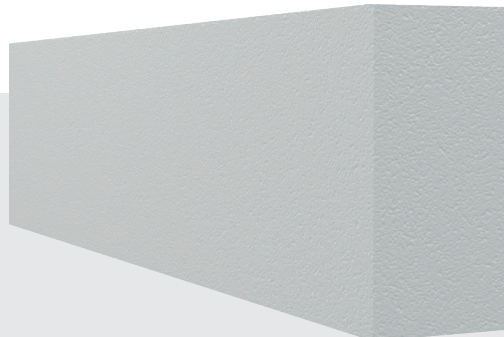
# Mega Insulation Solutions EPS

## MEGAFOAM



Mega Insulation Solutions Megafoam products; It is a light filling material with high bearing strength. Our product, which saves a lot of time and cost when it is used; It is used for ground improvement in many areas such as road, soft ground fillings, airport filling, bridge beam formworks and landscape works.

It is produced with a density of 16,18,20,22 kg / m<sup>3</sup> and its standard size is 103x128x405 mm.



# Mega Insulation Solutions

## EPS

### MEGAFOAM



Ürünün Tipi / Kullanım Alanı Product Type / Usage Area	MEGA Foam				
Özellikler Features	Beyan Sembolü Declaration Symbol	Birim Unit	Tanım Definition	Tolerans Tolerance	Ref. Standart Ref. Standard
Yangın Sınıfı Reaction to Fire Class	-	-	E	-	TS EN 13501-1
Isıl İletkenlik Katsayısı (10 °C) Thermal Conductivity Declared Value	$\lambda_D$	W/mK	max. 0,038	-	TS EN 13163
Boyut Kararlılığı Dimensional Stability	DS(N)	%	DS(N)2	± %0,2	TS EN 1603
Bükme Dayanımı Bending Strength	BS	kPa	min. 125	-	TS EN 12089
%10 Deformasyondaki Basma Gerilmesi Compressive Strength at 10% Deformation	CS(10)	kPa	min. 80	-	TS EN 826
%10 Deformasyondaki Basma Gerilmesi Compressive Strength at 10% Deformation	CS(2)	kPa	min. 50	-	TS EN 826
Uzun Süreli Su Absorpsiyonu Long-term Water Absorption	WL(T)	WLP	WL(T) 3	-	TS EN 12087

# Mega Insulation Solutions

## EPS

## ASMOLENE



Mega ASMOLENE is a ceiling and flooring element with high heat and sound insulation made of Polystyrene.

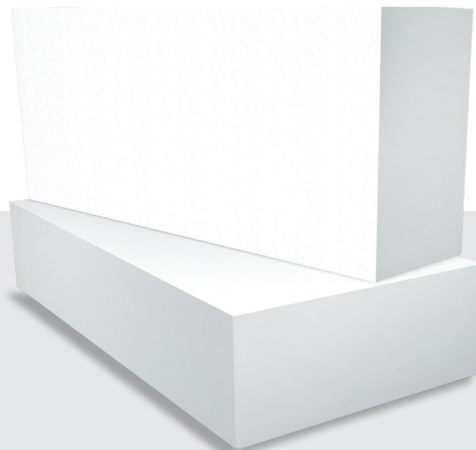
Its density varies between 10-30 kg / m<sup>3</sup>. Its dimensions are produced in 4050x1280x1030 mm dimensions, such as EPS BLOCK, and cut and sold in the thickness desired by the user.

### Usage Areas

- Curtain concrete
- Cold storage rooms
- Ceiling, floor applications

### Stock and Storage Conditions

- If possible, the materials should be stacked in a closed environment on low slope, protected from water, on flush wooden blocks. Pallets should not be stacked.
- If stacked in open environment, nylon or tarpaulin should be covered so as not to interrupt the air flow and create a pool to protect it from water. Sheets should be protected from the sun as well as protected from water.
- Materials are in packages; a crane should be used if possible at the construction site or on the roof. As the pallet sizes and sizes vary, the appropriate forklift or crane should be selected.
- If pallets are to be transported by crane, steel or chain ropes should never be used, and flat ropes (nylon, hemp, silk) should be preferred. Wooden wedges should be placed where the ropes come from and their edges should be protected. Wedges should overflow 3.5 cm from the pallets. If a forklift is to be used; If the pallet length is over 6 m, a wide forklift truck should be used.



# Mega Insulation Solutions

## EPS

### ASMOLENE



Ürünün Tipi / Kullanım Alanı Product Type / Usage Area	Asmolen Asmolene			
	Beyan Sembolü Declaration Symbol	Birim Unit	Tanım Definition	Ref. Standart Ref. Standard
Genişlik / Uzunluk Width / Length	W/L	mm	(W3) / (L3)	TS EN 822
Kalınlık Thickness	T	mm	(T2)	TS EN 823
Yangın Sınıfı Reaction to Fire Class	-	-	E	TS EN 13501-1
Alçı Sıva Tavan Kaplaması ile Yangına Tepki Sınıfı Reaction to Fire Class with Gypsum Plaster Ceiling	-	-	B s1 d0	TS EN 13501-1
Alçı Panel Tavan Kaplaması ile Yangına Tepki Sınıfı Reaction to Fire Class with Gypsum Board Ceiling	-	-	B s1 d0	TS EN 13501-1
Alçı Sıva Tavan Kaplaması ile Yangına Dayanım Sınıfı Resistance Class with Gypsum Plaster Ceiling	-	-	RE 90, REI 90	TS EN 13501-2
Alçı Panel Tavan Kaplaması ile Yangına Dayanım Sınıfı Resistance Class with Gypsum Board Ceiling	-	-	RE 120, REI 90	TS EN 13501-2
Gönyeden Sapma Deviations from Mitre (Length / Width)	S	mm/m	Sb(5)	TS EN 824
Yüzey Düzgünlüğü Surface Smoothness	P	mm/m	P(3)	TS EN 825
Bükme Dayanımı Blending Strength	BS	kPa	BS50	TS EN 12089
%10 Deformasyondaki Basma Gerilmesi Compressive Strength at 10% Deformation	CS(10)	kPa	CS(10)30	TS EN 826
Ambalaj Malzemesi The Packaging Material	-	-	Poliyeten Film Polythene Film	-

# Mega Insulation Solutions

## EPS

MEGA EPS W FB

MEGA EPS FISH BOX



### General Features

- It is an environmentally friendly material, does not contain chemicals that will harm human health.
- It is very resistant to pressure, not affected by vibration, resistant to impacts.
- It does not adversely affect the smell and taste of the product inside.
- It is suitable for food regulations. Water and steam proof.
- It is used in products that are opaque and light sensitive.
- The product is protected from outside weather effects.
- It does not form bacteria and does not rot over time.
- It does not produce organisms.
- It protects products sensitive to sunlight with high opacity.
- It is produced quickly with its technological infrastructure.
- It is environmentally friendly.
- It does not harm the nature.
- It is recyclable.
- Water, water vapor, damp proof.
- It is not corrosive.
- Dust and dirt proof.
- Crush and impact resistance is very high.
- It retains the heat of the product stored for a longer period of time with its high thermal insulation feature.
- Since it provides the same amount of heat distribution throughout the box, it protects not only the middle parts of the box but also the foodstuffs on the edges against rapidly changing heat.





# Mega Insulation Solutions

## EPS

### MEGA EPS WFHB

### UNDERFLOOR HEATING BOARD



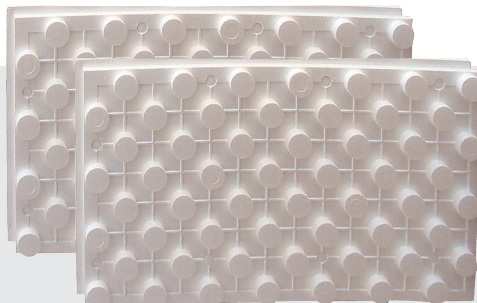
Mega EPS Underfloor Heating Boards is a multi-comfort insulation board made of expanded polystyrene foam (EPS), which ensures the fixation of under-screed concrete insulation materials and hot water pipes laid on the floor with a healthy distribution.

## Usage Areas

- It is resistant to environmental conditions and has a long life.
- It does not absorb water.
- It has very good shock absorption.
- It does not produce bacteria.
- Hot water pipes passing through the channels cannot be dislodged due to the wide ends of the knobs next to them.
- It is much easier to lay equally spaced hot water pipes thanks to pipe laying channels.
- It prevents pipes from collecting on one side when screed is applied on underfloor heating.
- It moves as a whole in the place where it is laid with the tenons on the edges.

## Stock and Storage Conditions

- If possible, the materials should be stacked in a closed environment on low slope, protected from water, on flush wooden blocks. Pallets should not be stacked.
- If stacked in open environment, nylon or tarpaulin should be covered so as not to interrupt the air flow and create a pool to protect it from water. Sheets should be protected from the sun as well as protected from water.
- Materials are in packages; a crane should be used, if possible, at the construction site or on the roof. As the pallet sizes and sizes vary, the appropriate forklift or crane should be selected.
- If pallets are to be transported by crane, steel or chain ropes should never be used, and flat ropes (nylon, hemp, silk) should be preferred. Wooden wedges should be placed where the ropes come from and their edges should be protected. Wedges should overflow 3.5 cm from the pallets. If a forklift is to be used; If the pallet length is over 6 m, a wide forklift truck should be used.







# Mega Insulation Solutions

## MEGATECH

### MTA-3333

## THERMAL INSULATION BOARD ADHESIVE MORTAR



It is a cement-based plaster mortar that is modified with chemical additives applied to the interior and exterior facades of the buildings. It is used for Stonewool, EPS, XPS.

### Application Area

It is used in facade coating systems, on finely plastered or properly made rough plastered surfaces.

### Application Features

- Availability time max. 2 hours
- Working time max. 10-15 minutes
- Time required to apply plaster on the glued insulation board: 2 days

### Surface Preparation

- MEGATECH AD will be applied on the surfaces such as dust, dirt, oil, etc. It should be free from residues that would prevent adhesion.
- If there are defects on the application surface, they are corrected with repair/repair mortar.
- The surface should be cured and solid.
- If the application surfaces are porous, it should be wetted.
- Care must be taken to ensure that the application surface is in a solid carrier and also in its balance.

### Application Conditions

- Ambient temperature is between +5°C and +35°C,
- Direct sun should not be applied under strong wind or on hot surfaces.

### Warnings and Suggestions

- Foreign materials must not be added.
- All tools used should be washed with water before drying after the application.
- Not applicable in low-strength areas that are not strong.

### Application Tools

Hand mixer, steel trowel, plastic trowel

### Application

- The container in which the mortar is to be prepared must be clean and free of any residual mix.
- Care should be taken to clean the water and materials used.
- The mortar should be prepared at the rate of 25 kg MEGATECH AD in 5.5-6 liters of water.
- First water is poured into the container and then the powder is added slowly. It is mixed until a homogeneous mixture is obtained.
- In order to make the mixture homogeneous, a low speed mixer should be used.
- After obtaining a homogeneous mixture, rest for 5-10 minutes for the mortar to mature.
- It should be mixed again for 1-2 minutes before starting the application.
- After the mixture becomes homogeneous, no powder, water or any other substance should be added.
- MEGATECH AD should be applied according to the flatness of the floor to be adhered. If the floor is in a flat structure, it should be carded behind the plate, if the floor is not flat, it should be applied to the back of the plate by mortar clustering method.
- Whether the boards are at the same level during adhesion should be checked with a gauge or spirit level.
- The prepared mortar should be consumed within 3 hours.
- Expired or crusted mortar in the container should be discarded.
- Hands and application tools should be washed with plenty of water after the application.
- Depending on the ambient temperature and surface properties, mechanical dowelling should be done at least 24 hours later

### Consumption

About 3-5 kg/m<sup>2</sup>

### Performance Information

- Fire Response Class: A1,
  - Thermal Conductivity: Table 2, T1 ≤ 0.48 W /mK (P = 90%),
  - Dry Bulk Density: 1150 ± 300 Kg/m<sup>3</sup>,
  - Compressive Strength: CS IV,
  - Bond Strength: 0.3 N / mm<sup>2</sup> FP:(A),
  - Capillary Water Absorption: W0,
  - Water Vapor Permeability Coefficient (μ): ≤35,
  - Mortar Type: The Ratio of Cement Mortars and Air Lime Mass to Total Binder Mass Air Lime + Cement Mortars It Does Not Exceed
- Note: Application features have been provided in the laboratory environment (23 ± 2 °C and 50 ± 5% humidity and no air flow) as a result of the experiments and may vary according to different environmental conditions. Performance information has been tested in the environments specified in accordance with the relevant standard of the product, and results may be observed in different environments.

### Reference Standards

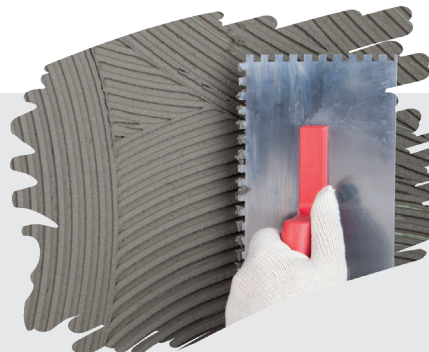
- TS EN 998-1

### Packaging

- In 25 kg kraft bag,
- 64 in pallet, 1600 kg

### Physical State

Gray, powder

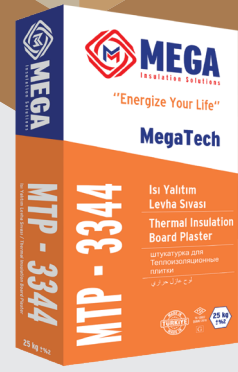


# Mega Insulation Solutions

## MEGATECH

### MTP-3344

## THERMAL INSULATION BOARD PLASTER



Cement-based surface plaster for thermal insulation boards.

It is used for Stonewool, EPS, XPS.

### Application Area

In all structures, polystyrene boards are a plaster used on Stonewool (XPS, EPS). It provides high performance thanks to polypropylene fibers against tensions that may occur on wall surfaces with crack risk.

### Application Features

- Usage time max. 90 minutes
- Working time max. 20-30 minutes
- Application thickness 4 mm
- Applicable layer thickness max 2 mm
- Waiting time between layers min. 3-4 hours
- Time to wait for the top coat application: 7 days

### Surface Preparation

- MEGATECH LF will be applied on the surfaces such as dust, dirt, oil, etc. It should be free from residues that would prevent adhesion.
- If there are defects on the application surface, they are corrected with repair/repair mortar.
- The surface should be cured and solid.
- If the application surfaces are porous, it should be wetted.
- Care must be taken to ensure that the application surface is in a solid carrier and also in its balance

### Application Conditions

- Ambient temperature is between +5°C and +35°C,
- Direct sun should not be applied under strong wind or on hot surfaces

### Warnings and Suggestions

- Foreign materials must not be added.
- All tools used should be washed with water before drying after the application.

### Application Tools

Hand mixer, steel trowel, plastic trowel

### Application

- The container in which the mortar is to be prepared must be clean and free of any residual mix.
- Care should be taken to clean the water and materials used.
- The mortar should be prepared in 6-6.5 liters of water at the rate of 25 kg MEGATECH LF.
- First water is poured into the container and then the powder is added slowly. It is mixed until a homogeneous mixture is obtained.
- In order to make the mixture homogeneous, a low speed mixer should be used.
- After obtaining a homogeneous mixture, rest for 5-10 minutes for the mortar to mature.
- It should be mixed again for 1-2 minutes before starting the application.
- After the mixture becomes homogeneous, no powder, water or any other substance should be added.
- The mortar is smeared on the thermal insulation boards with a steel trowel.
- The plaster reinforcement mesh (fibermesh) is embedded with a steel trowel by gently pressing the mortar before it dries.
- Approximately 10 cm one over the other in the joints of the plaster file.
- After the 1st layer of plaster is lightly watered, the second layer is applied before drying.
- After applying the 2nd layer of plaster, the surface is smoothed with a steel trowel.
- The prepared mortar should be consumed within 3 hours.
- Expired or crusted mortar in the container should be discarded.
- Hands and application tools should be washed with plenty of water after the application.
- Any coating can be applied after curing the surface

### Consumption

About 5-6 kg/m<sup>2</sup>

### Performance Information

- Hollow Unit Volume Mass of Fresh Mortar:  $\geq 1150 \text{ kg / m}^3$
  - Hollow Unit Volume Mass of Hardened Cement-based Plaster:  $1450 \pm 250 \text{ kg / m}^3$
  - Screen analysis: Amount remaining on the sieve with 1 mm gap  $\leq 1.0\%$
  - Thermal Conductivity: Table 2 T1  $\leq 0.54 \text{ W / mK}$  (P=90%)
  - Flexural Strength:  $\geq 2 \text{ N / mm}^2$
  - Compressive Strength:  $\geq 6 \text{ N / mm}^2$
  - Adhesion Strength to Thermal Insulation Board:  $\geq 0.08 \text{ N / mm}^2$
  - Capillary Water Absorption:  $\leq 0,5 \text{ kg / m}^2 \cdot \text{dk}$  0,5
  - Water Vapor Permeability Coefficient:  $\mu \leq 15$
  - Fire Class: A1
  - Temperature resistance: +5°C to +30°C
- Note: Application properties in the laboratory environment ( $23 \pm 2 \text{ }^\circ\text{C}$  and  $50 \pm 5\%$  humidity and no air flow) were obtained as a result of experiments and may vary according to different environmental conditions. Performance information has been tested in the environments specified in accordance with the relevant standard of the product, and results may be observed in different environments.

### Reference Standards

- TSEK 113
- G Mark
- Public Works Pos No: 04.481

### Packaging

- In 25 kg craft bag,
- 64 in pallet, 1600 kg

### Physical State

Gray, powder



# Mega Insulation Solutions

## MEGATECH

### MTD-3355

#### DECORATIVE MINERAL PLASTER



Cement based decorative mineral plaster.  
It is used for Stonewool, EPS, XPS

#### Application Area

- It is used on thinly plastered and properly made rough plastered surfaces in the facade jacketing system.
- It is used as decorative coating on interior and exterior plasters.

#### Application Features

- Availability time max. 1 hour
- Working time max. 30 minutes
- Application thickness 2 mm

#### Surface Preparation

- Megatech Decorative Mineral Plaster will be applied on the surfaces such as dust, dirt, oil, etc. It should be free from residues that would prevent adhesion.
- If there are defects on the application surface, they are corrected with repair / repair mortar.
- The surface should be cured and solid.
- If the application surfaces are porous, it should be wetted.
- Care must be taken to ensure that the application surface is in a solid carrier and also in its balance

#### Application Conditions

- Ambient temperature is between +5°C and +35°C,
- Direct sun should not be applied under strong wind or on hot surfaces.

#### Warnings and Suggestions

- Foreign materials must not be added.
- All tools used should be washed with water before drying after the application.

#### Application Tools

Hand mixer, steel trowel, plastic trowel

#### Application

- The container in which the mortar is to be prepared must be clean and free of any residual mix .
- Care should be taken to clean the water and materials used.
- The mortar should be prepared in 5-5.5 liters of water and 25 kg of MEGATECH DECORATIVE MINERAL PLASTER.
- First water is poured into the container and then the powder is added slowly. Mix until there are no lumps.
- In order to make the mixture homogeneous, a low speed mixer should be used.
- After obtaining a homogeneous mixture, rest for 5-10 minutes. It is mixed again for 1-2 minutes before starting the application.
- After the mixture becomes homogeneous, no powder, water or any other substance should be added.
- The prepared mortar is applied to the surface with a steel trowel at the fill size and the surface is textured by making circular movements with a plastic trowel.
- The prepared mortar should be consumed within 1 hour.
- Application should be done in one go on the surfaces that are connected to each other.
- It cannot be left on the surface as the last layer building material. It must be painted over after drying.
- Application should not be performed in cases where the temperature may fall below +5°C within 24 hours following the application.
- Extremely hot surfaces should be moistened before application.
- Paper tapes should be used to ensure that joints are not visible on large surfaces and work loops, or a sufficient amount of applicators should be used to ensure wet horizontal surfaces exposed to rain.

- Application before age, without drying the material.
- The material should not be used on
- Expired or crusted mortar in the container should be discarded.
- Hands and application tools should be washed with plenty of water after the application.

#### Consumption

Approx. 2.4-2.8 kg / m<sup>2</sup> (for 2 mm thickness)

#### Performance Information

- Dry film Thickness: E5
- Grain Size Class: S4
- Water Vapor Transfer Rate: V2
- Water Transfer Rate: W3
- Crack Covering Feature: A0
- CO2 Transmittance: C0
- These values have been obtained as a result of laboratory experiments, complete drying of finished applications Valid for heir performances at the end of their period. The values may change as the job site environment is different.

#### Reference Standards

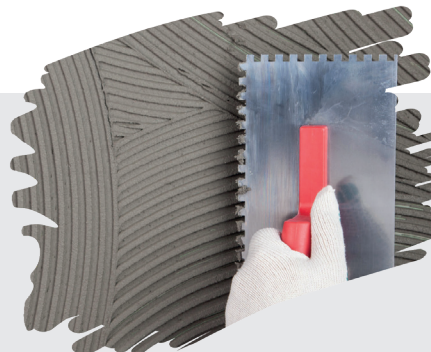
- TS 7847
- G
- Public Works Pos No: 04.476 / A

#### Packaging

- In 25 kg kraft bag,
- 64 in pallet, 1600 kg

#### Physical State

White, powder



# Mega Insulation Solutions

## MEGATECH

### MTC-2221

#### CERAMIC TILE ADHESIVE



Cement based normal hardening ceramic adhesive mortar.

#### Application Area

- It is used for the application of coating materials such as small and medium sized floor and wall ceramics, tiles, natural stone glass mosaic, travertine, decorative coating bricks on surfaces such as concrete and plaster, screed, screed, horizontal and vertical.
- It is used for bonding tiles on tiles or ceramic on tiles.

#### Application Features

- Availability time max. 5 hours,
- Working time min. 20 minutes,
- Correction time max. 15 minutes,
- Time required for grouting, 24 hours on the wall, 48 hours on the floor.

#### Surface Preparation

- MEGATECH CERAMIC will be applied on the surfaces such as dust, dirt, oil, etc. It should be free from residues that would prevent adhesion.
- If there are defects on the application surface, they are corrected with repair mortar.
- The surface should be cured and solid.
- If the application surfaces are porous, it should be wetted.
- Care must be taken to ensure that the application surface is in a solid carrier and also in its balance.

#### Application Conditions

- Ambient temperature should be between -5°C and +35°C.
- It should not be applied under direct sun, strong wind or on hot surfaces.
- MEGATECH CERAMIC should form a film on the surface during the application, and should be combed again at the discretion it occurs.

#### Warnings and Suggestions

- Foreign matter must not be added.
- All tools used should be washed with water before drying after the application.

#### Application Tools

Hand mixer, trowel, rubber hammer, toothed steel trowel

#### Application

- The container in which the mortar is to be prepared must be clean and free of any residual mix.
- Care should be taken to clean the water and materials used.
- The mortar should be prepared in 6-6,5 liters of water at the rate of 25 kg MEGATECH CERAMIC.
- Firstly water is poured into the container and then the powder is added slowly and mixed until a homogeneous mixture is obtained.
- In order to make the mixture homogeneous, a low speed mixer should be used.
- After obtaining a homogeneous mixture, rest for 5-10 minutes for the mortar to mature.
- It should be mixed again for 1-2 minutes before starting the application.
- After the mixture becomes homogeneous, no powder, water or any other substance should be added.
- In order to obtain a better adhesion surface, after the mortar is spread on the surface with the flat part of the trowel, it should be combed with the toothed part of the trowel selected according to the tile size (See Comb Size and Consumption Table).
- Tiles should be adhered on the mortar combed within 20 minutes by applying force with a rubber hammer. This period may be shortened in applications performed under unfavorable environment conditions such as high temperature, low humidity, wind.
- Adhesion process should not be done on expired mortar, mortar should be scraped from the surface.
- The prepared mortar should be consumed within 5 hours.

- Expired or crusted mortar in the container should be discarded.
- Hands and application tools should be washed with plenty of water after the application.

- Tiles installed with MEGATECH CERAMIC should not be subject to water for at least 24 hours.

#### Consumption

Tile Size	Card Size	Consumption
< 5 cm	3 mm	2kg/m <sup>2</sup>
5-10 cm	4 mm	2-3kg/m <sup>2</sup>
10-20 cm	6 mm	4kg/m <sup>2</sup>
20-40 cm	8 mm	5-6kg/m <sup>2</sup>
>40 cm	10 mm	7-8kg/m <sup>2</sup>

#### Performance Information

- Tensile adhesion strength after exposure: 200.5 N / mm<sup>2</sup> after at least 20 minutes
- Initial tensile adhesion strength:  $\geq 0.5 \text{ N/mm}^2$
- Tensile adhesion strength after immersion in water:  $\geq 0.5 \text{ N / mm}^2$  tensile adhesion strength:  $0.5 \text{ N / mm}^2$
- Tensile adhesion strength after freeze-thaw cycles:  $\geq 0.5 \text{ N / mm}^2$
- Slip:  $\leq 0.5 \text{ mm}$
- Temperature resistance: -30 °C to + 60°C
- These values were obtained as a result of laboratory experiments and are valid for the performance of finished applications after 28 days

#### Reference Standards

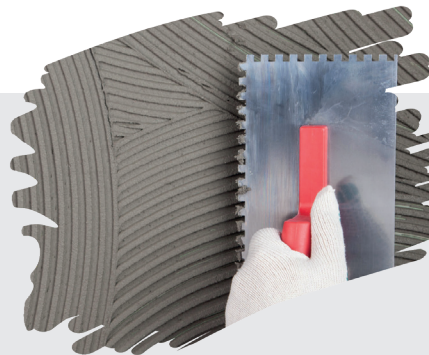
- TS EN 12004:2008 A1 / Class: C1
- Public Works Pos: 04.013/1

#### Packaging

- In 25 kg kraft bag,
- 64 in pallet, 1600 kg

#### Physical State

Gray - white, powder



# Mega Insulation Solutions

## MEGATECH

### MTC-2233

## FLEX GRANITE & MARBLE ADHESIVE MORTAR



Cement based developed high performance marble and granite adhesive mortar.

### Application Area

- It is used for the application of materials such as ceramics, granite, natural granite, large-size ceramics, porcelain ceramics, marble and pressed bricks on vertical surfaces such as concrete, plaster, screed
- Used in ceramic coating, renovation and repairs on old granite and marble.
- It is used in places such as shopping, business centers, hospitals, schools where there is heavy pedestrian and freight traffic.

### Application Features

- Availability time max. 5 hours,
- Working time min. 20 minutes,
- Correction time max. 15 minutes,
- Time required for grouting, 24 hours on the wall, 48 hours on the floor.

### Surface Preparation

- MEGATECH GRANIT will be applied on the surfaces such as dust, dirt, oil, etc. It should be free from residues that would prevent adhesion.
- If there are defects on the application surface, they are corrected with correction mortar.
- The surface should be cured and solid.
- If the application surfaces are porous, it should be wetted.
- Care must be taken to ensure that the application surface is in a solid carrier and also in its balance.

### Application Conditions

- Ambient temperature should be between -5°C and +35°C.
- Direct sun should not be applied under strong wind or on hot surfaces.
- During the application, care should be taken to create a film on the surface of MEGATECH GRANIT.

### Warnings and Suggestions

- Foreign materials must not be added.

- All tools used should be washed with water before drying after the application.

### Application Tools

Hand mixer, trowel, rubber hammer, toothed steel trowel

### Application

- The container in which the mortar is to be prepared must be clean and free of any residual mix.
- Care should be taken to clean the water and materials used.
- The mortar should be prepared in 6-6,5 lt water and 25 kg MEGATECH GRANIT.
- Firstly water is poured into the container and then the powder is added slowly and mixed until a homogeneous mixture is obtained.
- In order to make the mixture homogeneous, a low speed mixer should be used.
- After obtaining a homogeneous mixture, rest for 5-10 minutes for the mortar to mature.
- It should be mixed again for 1-2 minutes before starting the application.
- After the mixture becomes homogeneous, no powder, water or any other substance should be added.
- In order to obtain a better adhesion surface, after the mortar is spread on the surface with the flat part of the trowel, it should be combed with the toothed part of the trowel selected according to the tile size (See Comb Size and Consumption Table).
- Tiles should be adhered on the mortar combed within 20 minutes by applying force with a rubber hammer. This period may be shortened in applications performed under unfavorable ambient conditions such as high temperature, low humidity and wind.
- Adhesion process should not be done on expired mortar, mortar should be scraped from the surface.
- The prepared mortar should be consumed within 5 hours.
- Expired or crusted mortar in the container should be discarded.

- Hands and application tools should be washed with plenty of water after the application.
- Tiles installed with MEGATECH GRANIT must not be subject to water for at least 24 hours

### Consumption

Tile Size	Card Size	Consumption
< 5 cm	3 mm	2kg/m <sup>2</sup>
5-10 cm	4 mm	2-3kg/m <sup>2</sup>
10-20 cm	6 mm	4kg/m <sup>2</sup>
20-40 cm	8 mm	5-6kg/m <sup>2</sup>
>40 cm	10 mm	7-8kg/m <sup>2</sup>

### Performance Information

- Tensile adhesion strength after exposure: At least 20 minutes later  $\geq 2,5 \text{ N/mm}^2$
  - Initial tensile adhesion strength:  $\geq 2,5 \text{ N/mm}^2$
  - Tensile adhesion strength after immersion in water:  $\geq 15 \text{ N/mm}^2$
  - Tensile adhesion strength after heat aging:  $\geq 15 \text{ N/mm}^2$
  - Tensile adhesion strength after freeze-thaw cycles:  $\geq 15 \text{ N/mm}^2$
  - Slip:  $\leq 3 \text{ mm}$
  - Temperature resistance: -30°C ile +60°C
- Note: Application properties in laboratory environment ( $23 \pm 2 \text{ }^\circ\text{C}$  and  $50 \pm 5\%$  humidity and no air flow) were obtained as a result of experiments and may vary according to different environmental conditions. Performance information has been tested in the environments specified in accordance with the relevant standard of the product, and results may be observed in different environments.

### Reference Standards

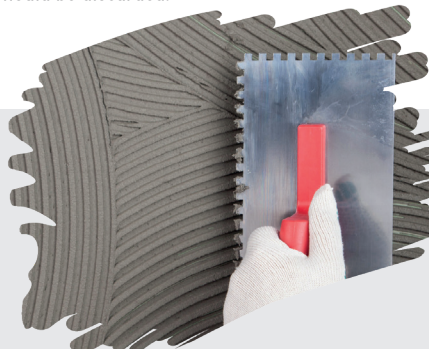
- TS EN 12004:2007+A1 / Class: C2T
- CE
- Public Works Pos No: 04.013/1

### Packaging

- In 25 kg kraft bag,
- 64 in pallet, 1600 kg

### Physical State

Gray - white, powder

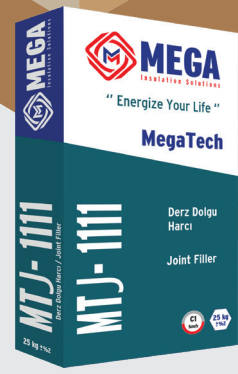


# Mega Insulation Solutions

## MEGATECH

### MTJ-1111

### JOINT FILLER



Cement based grout mortar. It is used for Stonewool, EPS, XPS

#### Application Area

- It is used in interior and exterior spaces for joints between 0-6 mm of ceramic, tile, natural stone, granite, marble and similar coating materials.
- It gives excellent results in interior spaces, horizontal and vertical applications

#### Application Features

- Availability time max. 1 hour,
- Hardening time: 12 hours,
- Time required for the ground to be opened to traffic: 24-48 hours,
- It has 30 different color options.

#### Surface Preparation

- Surfaces where joint filling will be applied are made of dust, dirt, oil, etc. It should be free from residues that would prevent adhesion.
- The surface to be worked on should not be too dry and sweating.
- When using high absorbent coating materials, the joints should be moistened with clean water when applying in hot and windy weather.
- If the ambient temperature is high, there may be sudden water loss after application, collapsing, fluting and cracking.

#### Application Conditions

- Ambient temperature should be between -5°C and +35°C.
- It should not be applied on frozen, melting or frost surfaces within 24 hours.
- It should not be applied under direct sun, strong wind or on hot surfaces.
- MEGATECH CERAMIC should form a film on the surface during the application, and should be combed again at the discretion it occurs.

#### Warnings and Suggestions

- Foreign matter should never be added.
- All tools used should be washed with water before drying after the application.

#### Application Tools

Hand mixer, trowel, rubber hammer, toothed steel trowel

#### Application

- The container in which the mortar is to be prepared must be clean and free of any residual mix.
- Care should be taken to clean the water and materials used.
- The mortar should be prepared at the rate of 20 kg MEGATECH JOINT FILLER in 7-7.5 liters of water.
- Firstly water is poured into the container and then the powder is added slowly and mixed until a homogeneous mixture is obtained.
- In order to make the mixture homogeneous, a low speed mixer should be used.
- After obtaining a homogeneous mixture, rest for 5-10 minutes for the mortar to mature.
- It should be mixed again for 1-2 minutes before starting the application.
- After the mixture becomes homogeneous, no powder, water or any other substance should be added.
- In order to obtain a better adhesion surface, after the mortar is spread on the surface with the flat part of the trowel, it should be combed with the toothed part of the trowel selected according to the tile size (See Comb Size and Consumption Table).
- Tiles should be adhered on the mortar combed within 20 minutes by applying force with a rubber hammer. This period may be shortened in applications performed under unfavorable environment conditions such as high temperature, low humidity, wind.
- Adhesion process should not be done on expired mortar, mortar should be scraped from the surface.

- The prepared mortar should be consumed within 5 hours.
- Expired or crusted mortar in the container should be discarded.
- Hands and application tools should be washed with plenty of water after the application.

#### Reference Standards

- TS EN 13888/ Class: CG1
- Public Works Pos No: 04.0132

#### Packaging

- In 20 kg kraft bag,
- 64 in pallet, 1280 kg

#### Physical State

30 different colors, powder

#### Consumption

Approx. 2.4-2.8 kg/m<sup>2</sup> (for 2 mm thickness)

#### Performance Information

- Dry film Thickness: E5
- Grain Size Class: S4
- Water Vapor Transfer Rate: V2
- Water Transfer Rate: W3
- Crack Covering Feature: A0
- CO<sub>2</sub> Transmittance: C0
- These values have been obtained as a result of laboratory experiments, complete drying of finished applications Valid for their performances at the end of their period. The values may change as the job site environment is different.

#### Reference Standards

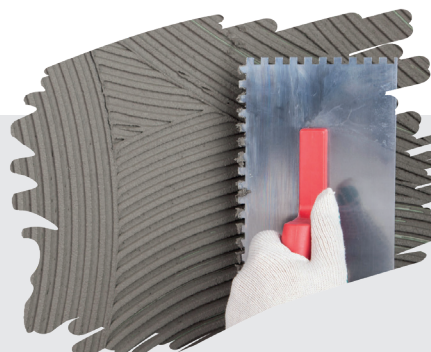
- TS EN 13888/ Class: CG1
- Public Works Pos No: 04.0132

#### Reference Standards

- In 20 kg kraft bag,
- 64 in pallet, 1280 kg

#### Physical State

Different colors, powder



# Mega Insulation Solutions

## MEGATECH

### EXPOSED CONCRETE PRIMER (BETON CONTACT)



#### Application Area

• As a primer for cement or gypsum based plaster mortars in indoor and outdoor spaces, horizontal and vertical applications, gross concrete surfaces, in the protection of water absorbing surfaces such as gypsum plaster, gypsum plasterboard, aerated concrete, chipboard, ceramic, porcelain before the ceiling plaster, porcelain. It is used as a primer that increases adherence in the adhesion of porcelain, marble and granite.

#### Benefits

• It is water based, odorless and can be used safely indoors. It provides high adherence. It increases workability. It is applied before cement and gypsum based coatings to be applied on absorbent surfaces and prevents rapid water loss of the mortar. It provides resistance against moisture. It is colorful and provides ease of application.

#### Preparation of the surface

• The application surface should be cured. The application surface should be cleaned from dust, oil, curing agent, detergent, mold oils and anti-adhesive materials such as silicone.

#### Application Information

• 12 kg. Dilute with 4-6 liters of water in the bucket of MEGATECH Gross Concrete Plaster Primer and mix with a low speed mixer until you get a homogeneous mixture.

• Diluted MEGATECH Primer is applied on the surface with a textured roller. 60-120 minutes after application. dries between. Cement or gypsum based plasters can be applied after 24 hours.

#### Packing

It can be stored in 12 kg plastic buckets in its unopened package for 12 months. Stir well before use. Protect against freezing. 100 - 300 gr./m<sup>2</sup> (Depends on the application surface).

#### Health and Safety

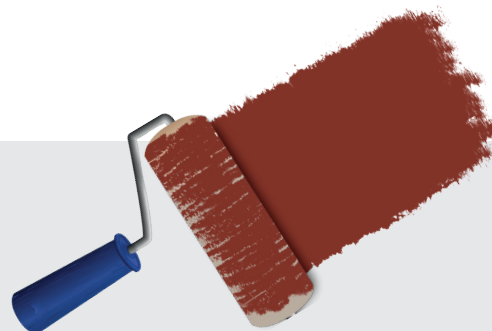
As with all chemical products, food products should not be in contact with the skin, eyes and mouth during use and storage. If accidentally swallowed, consult a doctor. In case of skin contact, wash with plenty of water. It should be stored out of the reach of children. The results may also differ from the results.

#### Attention

• Avoid application at temperatures below +5°C and above +35°C. Frozen, risk of freezing within 24 hours or direct sun and wind.

#### Technical Specifications

Aspect	Blue-Colored, Acrylic Dispersion
Density (Undiluted)	1,48 kg/lit
Application	4-6 lt water / 12 kg product
Application Temperature	Between +5 °C and 35 °C
Dry Time	1-2 hours
Curing Time	24 hours
Usage Temperature	-30 °C / +80 °C





# Mega Insulation Solutions

## SECONDARY PRODUCTS

Plastic Anchor, Steel Nail Anchor, 160 gr./m<sup>2</sup> Plaster Net, Net Corner Profile



Megatech

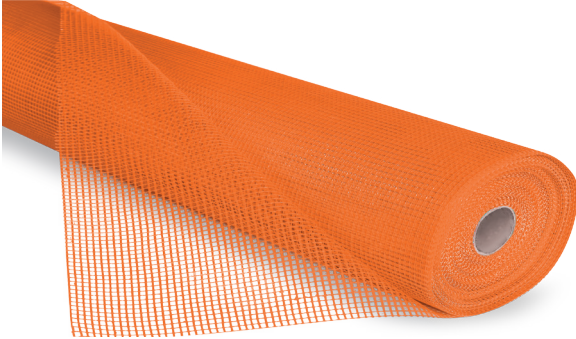
### Plastic Anchor

Mechanical fastener used to fix the boards to the surface.

Megatech

### Steel Nail Anchor

Fastener used to fix the boards on reinforced concrete and hard floors.



Megatech

### 160 gr./m<sup>2</sup> Plaster Net

Plaster Mesh is used to provide resistance against surface movements and stresses. It is resistant to outside weather conditions and alkali.

Density: 160 gr / m<sup>2</sup>  
Usage Amount: 1.1 m<sup>2</sup> / m<sup>2</sup>

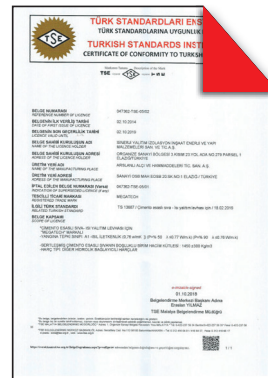
Megatech

### Net Corner Profile

It is a meshed PVC profile used to increase the strength at the edges and corners.



# Our Certificate & TSE Documents





**StoneWool**  
Stone Wool Insulation Systems

MEGA "Energize Your Life" StoneWool

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MEGA "Energize Your Life" StoneWool



**XPS**  
Extruded Polystyrene

MEGA XPS

MEGA XPS

MEGA XPS




**EPS**  
Expanded Polystyrene

MEGA EPS

MEGA EPS

MEGA EPS

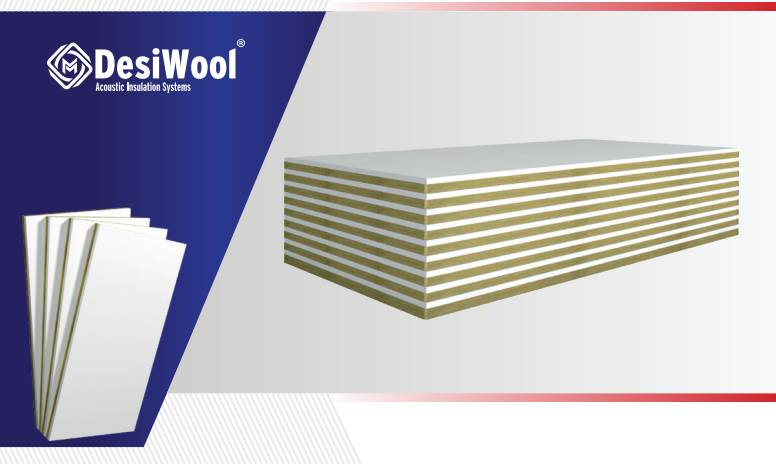


**Block**  
Insulated Construction Elements

MegaBlock

MEGA MegaBlock

MEGA MegaBlock



**DesiWool**  
Acoustic Insulation Systems

MEGA DesiWool

MEGA DesiWool

MEGA DesiWool



**Tech**  
Construction Chemicals

MEGA MegaTech

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**"Energize Your Life"**







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