

BUILD RIGHT

AssanDemir



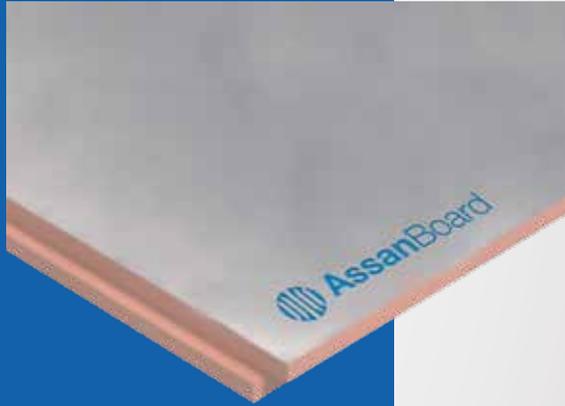
 **AssanWool**



 **AssanPU**



 **AssanBoard**



ASSANWOOL-ASSANPU-ASSANDEMİR-ASSANBOARD
PRODUCT CATALOGUE

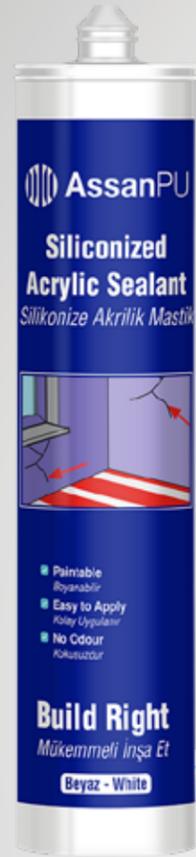


BUILD RIGHT

Installation, insulation, filling of spaces and waterproofing are our missions. We are at your side with our innovative, reliable and environmentally friendly products for your buildings. We provide long-lasting and effective solutions in sound, heat and water insulation applications. There will be no deviation from AssanPU products.



ACRYLIC SEALANT



PAINTABLE

ENVIRONMENTALLY FRIENDLY

NO ODOUR

PRODUCT PRESENTATION

Akrilik Mastik is an acrylic sealant which can be used in indoor and outdoor environments and which is combination of building materials and cracks, and one-component and general purpose.

APPLICATION AREAS

- At low and medium movable joints of building materials such as wood, concrete, brick, etc.
- To fill walls and cracks.
- At the joints of windows, doors and walls.

PROPERTIES

- Paintable.
- It can be used on all porous surfaces such as brick, concrete, wood, etc.
- It is very easy to apply and clean.
- It is waterproof after drying.
- No odour.

TECHNICAL PROPERTIES

Chemical Structure	Acrylic Dispersion
Consistency	Pasta
pH	7-9
Density	1,62 ± 0,03 gr/cm ³
Crusting Time	50 ± 20 min (23 °C and 50% R.H)
Curing Speed	2 mm/day (23 °C and 50% R.H)
Shore A Hardness	40 - 70 Shore A
Elongation	≥100% (ASTM D412)
Thermal Resistance	-10 °C and +80 °C
Application Temperature	+5 °C and +40 °C

Packaging Information

Product	Weight	Number of products in the box
White	310 ml	24
Black	310 ml	24
Brown	310 ml	24
Grey	310 ml	24
Golden Oak	310 ml	24
Beige	310 ml	24



GENERAL PURPOSE SILICONE



REMAINS ELASTIC AFTER HARDENING

NO CRACKING AND YELLOWING

EXCELLENT ADHESION

PRODUCT PRESENTATION

It is a one-component, acetic-hardening, general-purpose sealing and joint filling material. It provides strong adhesion to many non-porous surfaces, including general construction materials.

PROPERTIES

- Remains elastic after hardening.
- The acetoxy system hardens.
- It offers excellent adhesion to non-porous surfaces.
- Does not crack and does not turn yellow; it resists the effects of aging.
- It is resistant to detergent, cleaning materials and chemicals.
- It can be applied in all seasons.
- It emits a typical acid odor during curing.
- The LEED credit EQc4.1 determined by SCAQMD 1168 rule complies with the VOC amount determined by the "Low emitting products" protocol.

TECHNICAL PROPERTIES

Chemical Structure	Silicone Polymer
Curing Type	Acetoxy
Density	0.96-0.98 g/ml
Shore A Hardness	15-25 (28 days later)
Crust Formation	8-20 min (23 °C and 50% B.N.)
Curing Speed	Min. 2.5 mm/day (23 °C and 50% B.N.)
Tensile Strength	≥ 0,7 N/mm ² (ASTM D412)
Elongation	≥ 350% (ASTM D412)
Sagging	0 mm (ISO 7390)
Application Temperature	+5 °C and +40 °C
Thermal Resistance	-40 °C and +180 °C

Packaging Information

Product	Weight	Number of products in the box
Clear	310 ml / 280 ml	24
White	310 ml / 280 ml	24



MULTI PURPOSE PU FOAM

**EXCELLENT
ADHESION**

**MINIMUM
EXPANSION**

**USE IN ALL
SEASONS**

PRODUCT PRESENTATION

It is a one-component, polyurethane based filler and mounting foam that expands and cures with moisture. Each aerosol can is designed for use with a pipette.

PROPERTIES

- Excellent adhesion and filling properties.
- Excellent mounting and stability.
- Yields up to 45 liters, depending on humidity and temperature.
- Excellent adhesion to many surfaces (except teflon, PE, PP).
- High filling capacity.
- High thermal and acoustic insulation value.
- After drying, the cured foam can be cut, sanded, painted and plastered.
- No change in volume.
- Anti-mold and waterproof.
- It does not contain any propellants that could damage the ozone layer.
- It is classified as B3 according to DIN 4102 standard.

Technical Properties

Chemical Structure	Polyurethane
Curing Mechanism	Moisture Curing
Density	21±3 kg/m ³ (ASTM D1622)
Crusting Time (1 cm)	5±3 min (ASTM C1620)
Time Of Shearing (1 cm)	30-40 min (ASTM C1620)
Curing Time	24 hours
Foam Color	Light Yellow
Yield	30-45 L (ASTM C1536)
Amount Of Expansion	%160-180
Amount Of Traction	%0
Combustion Class	B3 (DIN 4102)
Thermal Conductivity	0,036 W/m.k (20 °C'de) (DIN 52612)
Compressive Strength	0,03 MPa (DIN 53421)
Water Absorption	1% maximum by volume (DIN 53428)
Thermal Resistance	-40 °C and +80 °C
Application Temperature	-2 °C and +30 °C
The temperature of the can	+5 °C and +30 °C

Packaging Information

Product	Weight	Number of products in the box
Multi Purpose PU Foam	850 gr	12
Multi Purpose PU Foam	600 gr	12



POLYURETHANE SEALANT

**PERMANENTLY
FLEXIBLE**

**NO CHANGE IN
VOLUME**

CURES FAST

PRODUCT PRESENTATION

It is a one-component polyurethane-based sealant that cures with moisture in the air. It has excellent adhesion to sheet iron, aluminum, stainless steel, lead, copper, ceramics, glass, wood and many plastic surfaces.

PROPERTIES

- Permanently flexible.
- Non-sag consistency. It is thixotropic.
- It has no surface adhesion and does not retain dirt.
- No change in volume.
- Has improved storage stability.
- It can be easily applied and corrected with a gun.
- Paintable.

Technical Properties

BEFORE CURING	
Chemical Structure	Polyurethane based
Form	Thixotropic paste
Curing Mechanism	Curing with humidity
Density	1,18±0,03 g/ml
Surface Drying Time	40±10 min (23 °C ve 50% R.H)
Sag	0 mm (EN ISO 7390)
Curing Speed	Min. 3 mm/day (23 °C and 50% R.H)
Thermal Resistance	-40 °C and +90 °C
Application Temperature	+5 °C and +40 °C



Packaging Information

Product	Weight	Number of products in the box
White, Gray, Other Color Options	310 ml	12
White, Gray, Other Color Options	600 ml	12



B1 FIRE RESISTANT POLYURETHANE FOAM

IT RESISTS FIRE FOR 217 MINUTES **PROVIDES EFFECTIVE INSULATION AGAINST GAS AND SMOKE** **EXCELLENT ADHESION**

PRODUCT PRESENTATION

B1 fire resistant polyurethane foam is a ready-to-use one-component polyurethane foam that is completely ozone friendly with the ozone layer. High quality PU foam is recommended for insulation applications where fire resistance is required. The PU foam aerosol can is designed for use with a pipette.

PROPERTIES

- It is fire resistant up to 217 minutes according to en 1366-4 (see table).
- Provides effective insulation against gas and smoke.
- No CFC and H-CFC gases.
- Excellent adhesion and filling properties.
- Excellent mounting and stability.
- Yields up to 45 liters, depending on humidity and temperature.
- Excellent adhesion to many surfaces (except teflon, PE, PP).
- High filling capacity.
- High thermal and acoustic insulation value.
- After drying, the cured foam can be cut, sanded, painted and plastered.
- No change in volume.
- Anti-mold and waterproof.
- It is classified as B1 according to DIN 4102 standard.
- Meets the requirements of En 1366-4.

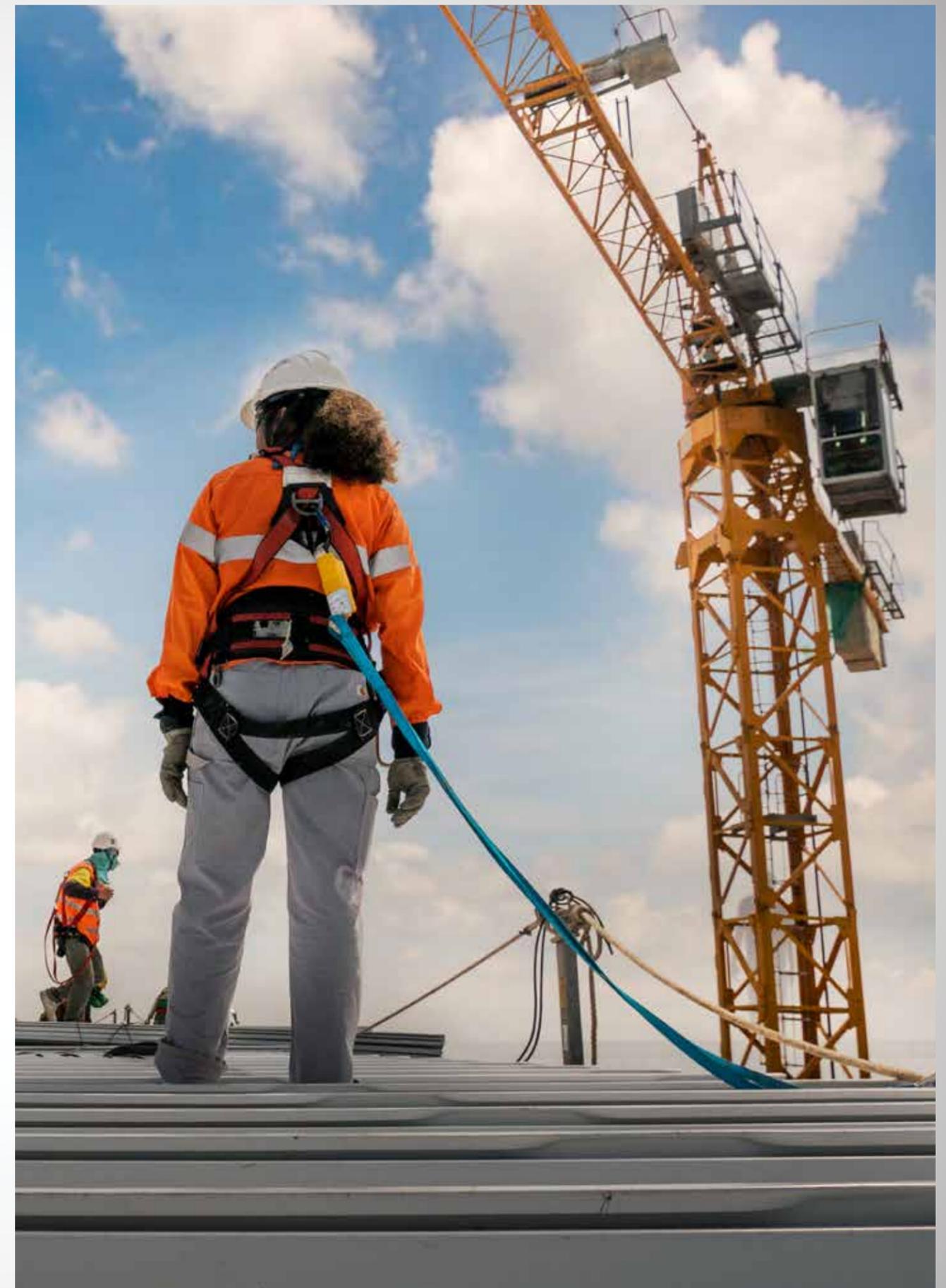
Technical Properties

Chemical Structure	Polyurethane	
Curing Mechanism	Moisture curing	
Density	22±3 kg/m ³	(ASTM D1622)
Crusting Time (1 cm)	7±3 min	(ASTM C1620)
Time of Shearing (1 cm)	30-45 min	(ASTM C1620)
Curing Time	24 hours	
Foam Color	Red	
Yield	35-45 L	(ASTM C1536)
Amount Of Expansion	%200 - 250	
Amount Of Traction	%0	
Combustion Class	B1	(DIN 4102)
Thermal Conductivity	0,036 W/m.k (At 20 °C)	(DIN 52612)
Compressive Strength	0,03 MPa	(DIN 53421)
Water Absorption	1% maximum by volume	(DIN 53428)
Thermal Resistance	-40 °C and +80 °C	
Application Temperature	-5 °C and +30 °C	
The temperature of the can	+5 °C and +30 °C	



Packaging Information

Product	Weight	Number of products in the box
B1 fire resistant polyurethane foam	850 gr	12



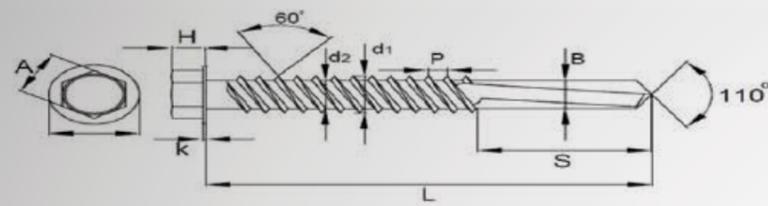
AssanDemir



SAFE SOLUTIONS IN YOUR INDUSTRIAL APPLICATIONS WITH ASSANDEMIR

Assan Demir Fasteners provides expert solutions for your roofing and facade applications in industrial facilities.

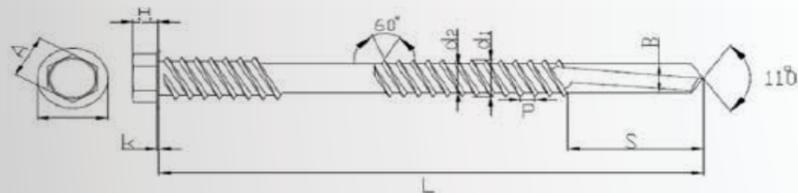
4.8 X 20 STITCHING SCREW



Technical Properties

Property	Standard Size (mm)
A	7,78-8,00
dx	9,80-10,50
H	4,00-4,40
k	Min=0,90
L	19,00-21,00
S	4,00-4,50
d1	4,62-4,80
d2	3,43-3,58
B	2,90-3,00
Coating Thickness	5-8 micron ZN. (Stainless)
Breaking Torque	700 N.cm
Surface Hardness	Min. 560 HV0,3
Core Hardness	370-450 HV10
Depth of Cementation	0,10-0,23 mm

5.5/6.3 X 65 FASTENER (SANDWICH PANEL)



Technical Properties

Property	Standard Size (mm)
A	7,78-8,00
dx	10,00-11,00
H	4,80-5,40
k	1,00-1,20
L	63,50-66,50
S	9,50-10,00
d1	5,28-5,46
d2	3,99-4,17
B	4,80-4,90
Coating Thickness	5-8 micron ZN. (Stainless)
Breaking Torque	1050 N.cm
Surface Hardness	Min. 560 HV0,3
Core Hardness	370-450 HV10
Depth of Cementation	0,10-0,23 mm

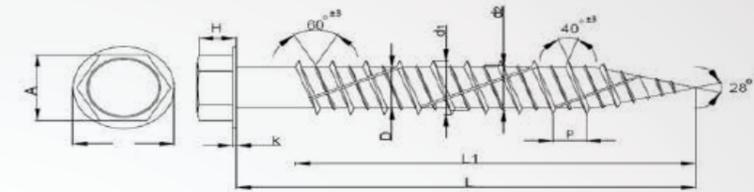
20 X 45 STORM WASHER



Packaging Information

Product	Number of products in the box
Semer	2000

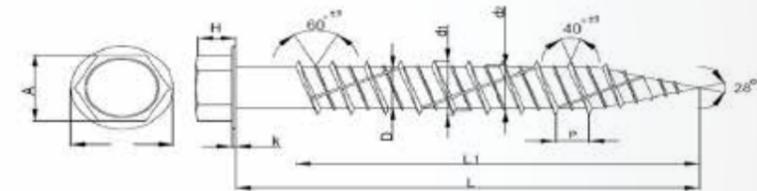
6,3 X 105 FASTENER (CONCRETE SUB-CONSTRUCTION)



Technical Properties

Property	Standard Size (mm)
A	7,78-8,00
dx	10,00-11,00
H	5,15-5,45
k	1,00-1,20
L	Min=55,00
S	104,00-106,00
d1	4,50-4,80
d2	6,20-6,55
B	5,40
Coating Thickness	5-8 micron ZN. (Stainless)
Breaking Torque	1500 N.cm
Surface Hardness	Min. 560 HV0,3
Core Hardness	370-450 HV10

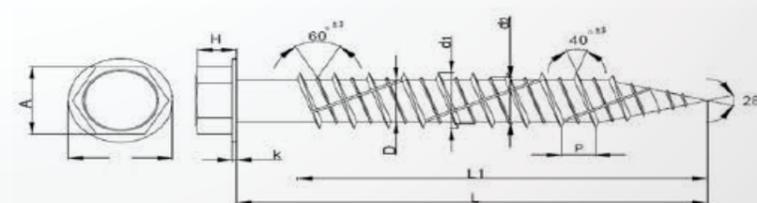
6,3 X 125 FASTENER (CONCRETE SUB-CONSTRUCTION)



Technical Properties

Property	Standard Size (mm)
A	7,78-8,00
dx	10,00-11,00
H	5,15-5,45
k	1,00-1,20
L	Min=55,00
S	124,00-126,00
d1	4,50-4,80
d2	6,20-6,55
B	5,40
Coating Thickness	5-8 micron ZN. (Stainless)
Breaking Torque	1500 N.cm
Surface Hardness	Min. 560 HV0,3
Core Hardness	370-450 HV10

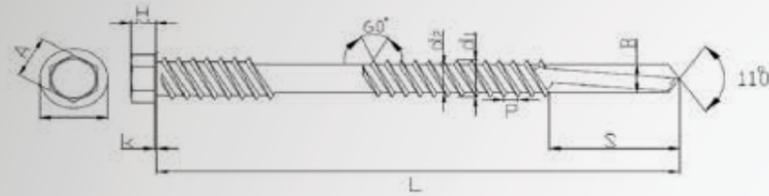
6,3 X 135 FASTENER (CONCRETE SUB-CONSTRUCTION)



Technical Properties

Property	Standard Size (mm)
A	7,78-8,00
dx	10,00-11,00
H	5,15-5,45
k	1,00-1,20
L	Min=55,00
S	134,00-136,00
d1	4,50-4,80
d2	6,20-6,55
B	5,40
Coating Thickness	5-8 micron ZN. (Stainless)
Breaking Torque	1500 N.cm
Surface Hardness	Min. 560 HV0,3
Core Hardness	370-450 HV10

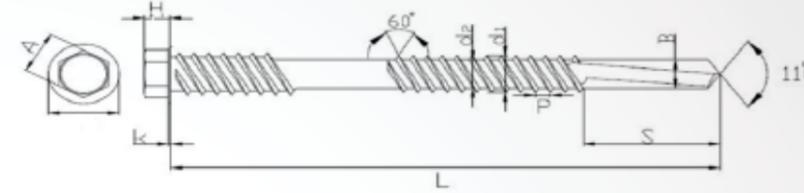
5.5 X 75 6 MM FASTENER (SANDWICH PANEL)



Technical Properties

Property	Standard Size (mm)
A	7,78-8,00
dx	10,00-11,00
H	4,80-5,40
k	1,00-1,20
L	73,50-76,50
S	9,50-10,00
d1	5,28-5,46
d2	3,99-4,17
B	4,80-4,90
Coating Thickness	5-8 micron ZN. (Stainless)
Breaking Torque	1050 N.cm
Surface Hardness	Min. 560 HV0,3
Core Hardness	370-450 HV10
Depth of Cementation	0,10-0,23 mm

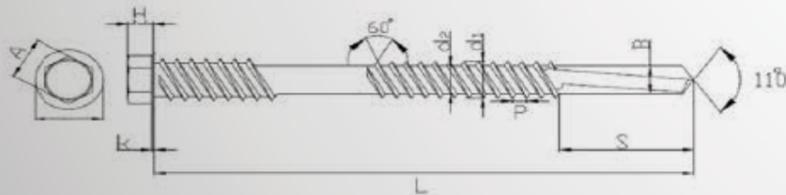
5.5 X 120 12 MM FASTENER (SANDWICH PANEL)



Technical Properties

Property	Standard Size (mm)
A	7,78-8,00
dx	10,00-11,00
H	4,80-5,40
k	1,00-1,20
L	118,00-122,00
S	16,50-16,70
d1	5,28-5,46
d2	3,99-4,17
B	4,80-4,90
Coating Thickness	5-8 micron ZN. (Stainless)
Breaking Torque	1050 N.cm
Surface Hardness	Min. 560 HV0,3
Core Hardness	370-450 HV10
Depth of Cementation	0,10-0,23 mm

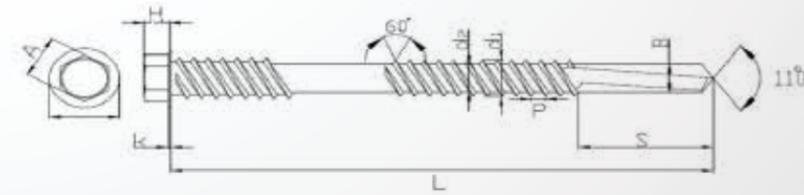
5.5 X 105 12 MM FASTENER (SANDWICH PANEL)



Technical Properties

Property	Standard Size (mm)
A	7,78-8,00
dx	10,00-11,00
H	4,80-5,40
k	1,00-1,20
L	103,50-106,50
S	16,50-16,70
d1	5,28-5,46
d2	3,99-4,17
B	4,80-4,90
Coating Thickness	5-8 micron ZN. (Stainless)
Breaking Torque	1050 N.cm
Surface Hardness	Min. 560 HV0,3
Core Hardness	370-450 HV10
Depth of Cementation	0,10-0,23 mm

5.5 X 135 12 MM FASTENER (SANDWICH PANEL)



Technical Properties

Property	Standard Size (mm)
A	7,78-8,00
dx	10,00-11,00
H	4,80-5,40
k	1,00-1,20
L	133,00-137,00
S	16,50-16,70
d1	5,28-5,46
d2	3,99-4,17
B	4,80-4,90
Coating Thickness	5-8 micron ZN. (Stainless)
Breaking Torque	1050 N.cm
Surface Hardness	Min. 560 HV0,3
Core Hardness	370-450 HV10
Depth of Cementation	0,10-0,23 mm

SELF DRILLING - TAPPING ROOFING & CLADDING SCREWS

Assan Panel fasteners provide expert solutions for your roof and facade applications in industrial facilities.

COATING TYPES

Protecting the metal surface is to protect the metal itself. Because a tiny gap on the surface makes metal inerable for corrosion.

Corrosion starts from this gap and moves inside of the metal. This shortens the economic life of the metal in use. According to application and environment conditions we have various coatings which do not contain CR+ 6 atoms harmful to health.

ZINC (GALVANIZED) COATING

Most widely used type of coating at corrosion protection. Optionally provides 48+, 72+ and 96+ hours salt test strength according to EN ISO 9227. Blue and Black

ZINC/NICKEL IS A TYPE OF COATING

Zinc/Nickel is a type of coating and is preferred in high corrosion resistant in industrial applications. Apearance color is bright metallic, ensures 480+ hours salt test strength according to EN ISO 9227.

HIGH CORROSION

Coating is in matt gray color and preffered in high corrosion resistance applications. Coating ensures up to 500+, 750+ or 1000 + hours salt spay test according to EN ISO 9227. This surface coating makes a corrosion resistance superior to those commonly used in the construction industry.





WE ARE INSPIRED BY NATURE FOR PERFECT ISOLATION

We first turn the volcanic stones into lava at 1600 °C. AssanWool, which we produce by turning the lava into fibers, is a natural insulating material.



MINERAL WOOL



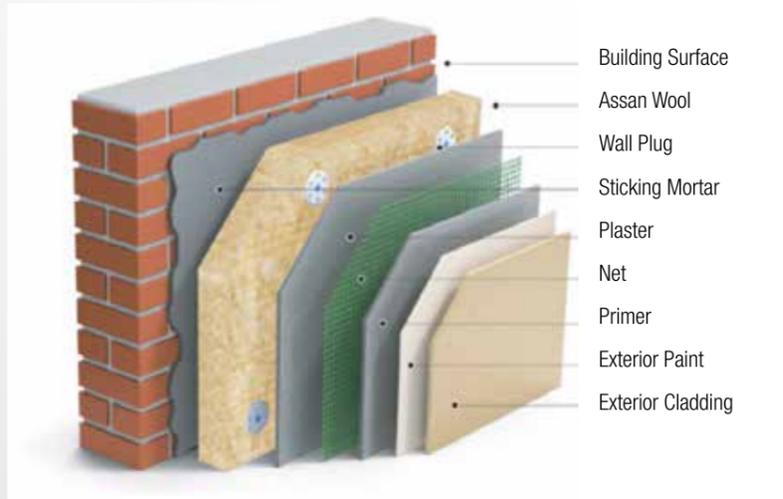
WHAT IS MINERAL WOOL?

It is a thermal insulation material formed by dissolving mineral and inorganic stones obtained from volcanic rocks in nature between 1400 and 1500 degrees and becoming a fiber and containing 97% natural fiber. It features high-level insulation in building roofs, bulkheads, exterior insulation, furnaces, steel door insulation, shipbuilding, electrical appliances, entertainment venues and cinemas, anywhere heat, sound, moisture insulation and fire safety are required.

GENERAL PROPERTIES

- Thanks to its inorganic structure, it does not produce bacteria and microorganisms.
- It is an ecological and environmentally friendly product made of natural raw material.
- Mineral Wool has a water repellent function thanks to its saturated structure.
- Since it has vapor permeability, it does not contain vapor.
- The use of mineral wool reduces the need for fossil fuels. For this reason, it will also help reduce CO₂ emissions and mitigate ecological events such as climate change.
- Since mineral wool is resistant to temperatures above 1000 °C, it provides vital fire safety. While preventing the spread of fire, it gives firefighters time to respond to fires, save lives and evacuate.
- Thanks to the mineral wool fibers, it eliminates negative external factors such as sound, noise and provides a peaceful environment.

ASSANWOOL FACADE APPLICATION



MINERAL WOOL



WHAT ARE THE USES OF MINERAL WOOL?

- As a thermal insulation panel outside buildings (Coating),
- In the thermal insulation of cold and hot roofs,
- On the partition walls for acoustic solutions and sound insulation,
- In industrial furnaces (up to 700 °C),
- In refineries,
- In steel doors (for sound insulation and fire protection purposes),
- In ships,
- In entertainment centers (for sound and fire safety),
- In the studio,
- It is used in conference rooms, cinemas, etc.

PRODUCT PRESENTATION

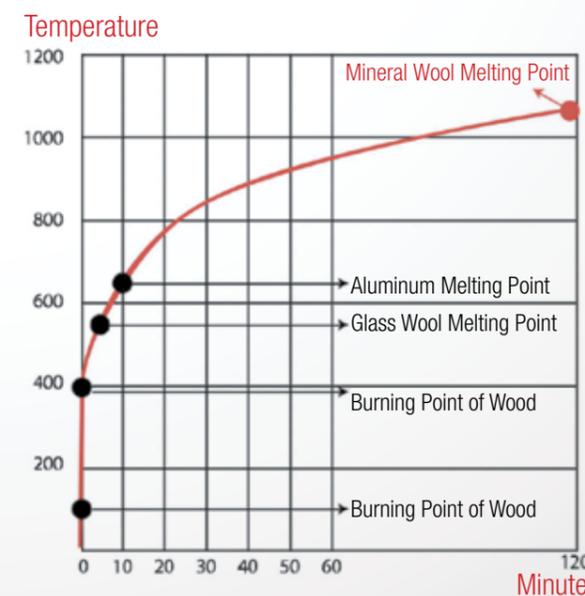
These are mineral wool panels that do not need to have a very high compressive strength, but can be worn in an upright position. It is used in areas requiring thermal, acoustic and fire insulation and where all kinds of acoustic details are found.

APPLICATION AREAS

It is used as an insulator for heat, sound, fire and acoustics inside cage systems formed with load-bearing constructions formed of wood and metal. Mineral Wool panels must have a density of at least 40 kg/m³ so that they can stand vertically and not pile up and slip over time. If necessary, it should be partially secured to the surface with insulating hanger pins. It is used in areas required by acoustic insulation, covered with black and yellow fiberglass. The walls for acoustic purposes should be covered with materials with 50% perforated surface.

APPLICATION BASICS

It is used as an insulator for heat, sound, fire and acoustics inside cage systems formed with load-bearing constructions formed of wood and metal. The mineral wool panels must be able to stand vertically and the density must be at least 40 kg/m³ so as not to be stacked and slipped over time. If necessary, it should be partially secured to the surface with insulating hanger pins. It is used as a black and yellow fiberglass cover in areas where sound insulation is required. Acoustic walls must be covered with materials with a 50% perforated surface.



MINERAL WOOL

TECHNICAL PROPERTIES

TS EN 13162									
STANDARD	EXPLANATION	40 kg/m ³	50 kg/m ³	70 kg/m ³	90 kg/m ³	100 kg/m ³	110 kg/m ³	130 kg/m ³	150 kg/m ³
EN 822	Length (tolerance + - 2%)	1200 mm							
EN 822	Width (tolerance + - 1.5%)	600 mm							
EN 824	Miter Deviation Maximum 5 mm	maximum 1 mm							
EN 825	Surface Smoothness Maximum 6 mm	maximum 2 mm							
EN 826	Compressive Strength (10% deformation)					≥15	≥25	≥35	≥45
EN 1604	Relative Length, Width Thickness Determination Cannot Exceed 1%	0	0	0	0	0	0	0	0
EN 1067	Towing Perpendicular TR					≥7,5	≥10	≥15	≥15
EN 1609	Short Term Water Absorption Wp	<1							
EN 12037	Long Term Water Absorption Wp	<3							
EN 12086	Diffusion of Water Vapor	<1							
EN 12667	Thermal Conductivity (Maximum 0.04 W / mK)	Max. 0,036	Max. 0,036	Max. 0,036	Max. 0,036	Max. 0,036	Max. 0,036	Max. 0,036	Max. 0,036
EN 12667	Thermal Resistance (m ² K/W) R	1,39							
EN 13501-1	Behavior Against Fire	Class A1, non-flammable							
	Melting Point	C 1000							

Note: All values are given for 50 mm thick mineral wooll boards.





HEAT

It provides the highest level of thermal insulation. Its thermal conductivity value is lower than $\lambda=0.036$ W/mK. It prevents the leakage of heat in cold summer and cold in summer.



FIRE

It is part of class "A1", which is the class of non-combustible materials according to DIN and EN standards. The operating temperature is between -55 / + 760 degrees. Thanks to its mineral wool fire resistance, it prevents fire from spreading and saves time during quenching and rescue operations.



VOICE

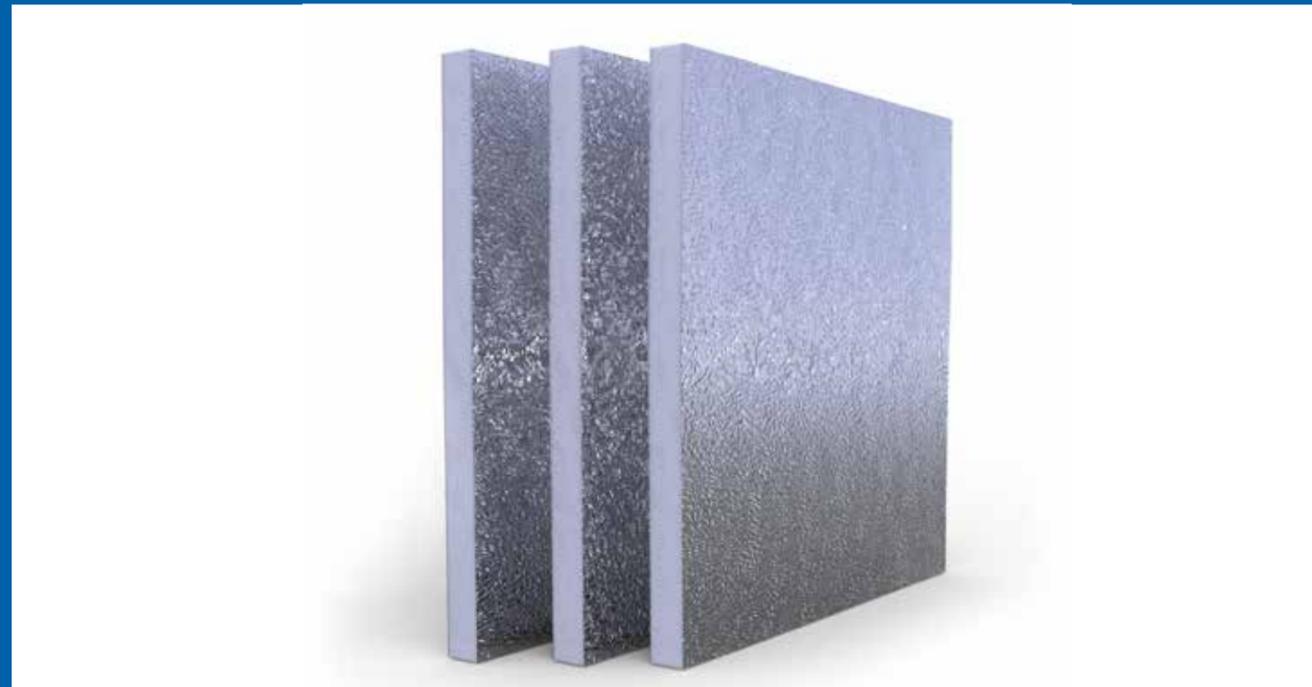
It provides sound insulation between 40 and 90% according to EN ISO standards. It is a material which can absorb sound well. It is used in the acoustic arrangement. It contributes to a peaceful environment through its noise reduction function.



HUMIDITY

Water vapor diffusion resistance is $\mu=1$. (Same value as air). Does not rot, deteriorate and mold. It does not corrode and rust.



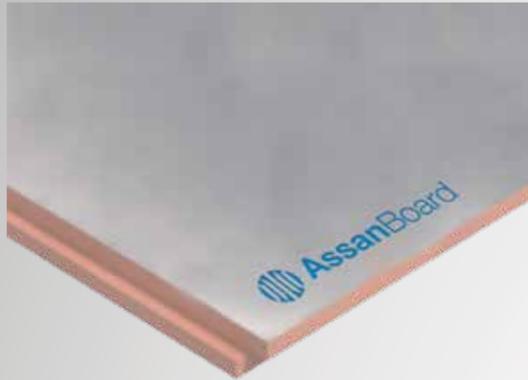


ASSANBOARD SOLUTIONS IN YOUR ON-SITE INSULATION APPLICATIONS

It is now very easy to achieve high energy savings with the insulation boards used for the insulation of roofs, walls and floors by covering sheets of PUR (polyurethane) or PIR (polyisocyanurate) with different coating materials of area.



THERMAL INSULATION BOARD



WHAT IS ASSANBOARD THERMAL INSULATION BOARD?

PUR (polyurethane) or PIR (polyisocyanurate) are insulation boards used for the insulation of roofs, walls and floors, produced by coating with different surface coating materials.

USAGE AREAS

AssanBoard insulation panels are suitable for the insulation of roofs, facades and floors. They are used in industrial buildings, residences, public buildings, shopping malls, cold room warehouses and all cold and hot roofing applications. Due to the structure of the panels which provide thermal, acoustic and hydraulic insulation, they also have anti-mold properties. It meets all building insulation needs with different types of preferred surface coatings depending on the desired insulation.

Advantages

- High fire resistance
- High compressive strength
- Ease of installation and low cost
- High energy saving
- Sustainable structures that respect the environment

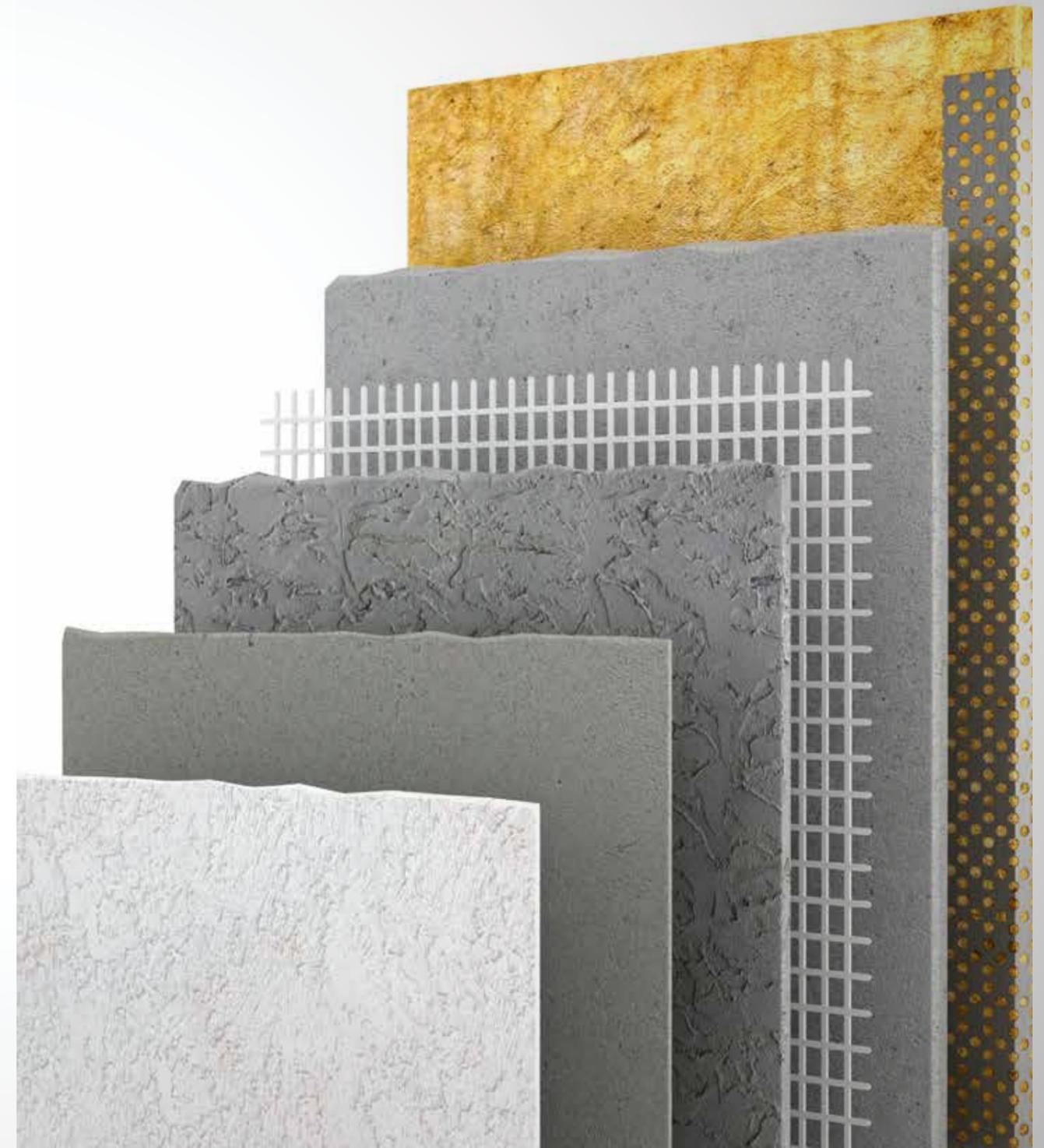
Surface Coating Types

Type Of Coating	Top Surface	Lower Surface Area
Kraft Paper	x	x
Aluminium Foil	x	x
Membrane	x	x
Aluminum + Kraft Paper	x	x

Type of Insulation	Thickness (mm)	Density (kg/m ³)	Weight (kg/m ²)	R Value R (m ² K/W)	U Value (W/m ² K)
PUR-PIR	30	40 (+ - 2)	1,20	1,36	0,73
	40		1,60	1,81	0,56
	50		2,00	2,27	0,44

Technical Properties

Product	AssanBoard
Production Location	Tuzla
Filling Material	PUR/PIR
Polyurethane - Polyisocyanurate Thickness	30-40-50 mm
Polyurethane - Polyisocyanurate density (EN 1602)	40 (±2) kg / m ³ / 41 (±2) kg/m
Flammability class (EN 13501)	B.S2.d0/B.S1.d0
Dimensions	1200x600 mm - 1200x2400 mm
Heat Conduction Coefficient (EN 13165)	0,022-0,024 W/mK
Temperature Resistance	-200 /+110 °C



AssanBoard

BUILD RIGHT

TUZLA FACTORY



İSKENDERUN FACTORY



BALIKESİR FACTORY



JORDAN FACTORY



AssanDemir



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