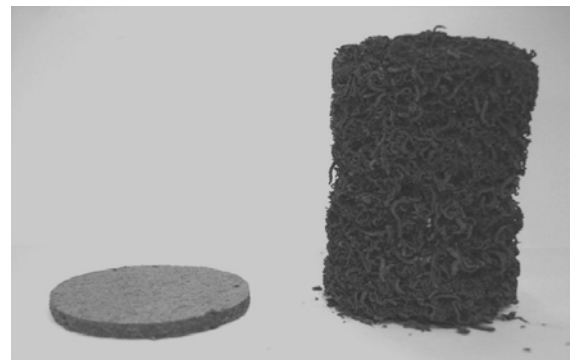


Fire Doors Assembly Components

High Performance | Low Cost | Long Life

- ✓ Fireproof Calcium Silicate Boards
- ✓ High Density Rockwool Boards
- ✓ Fireproof MgO Boards
- ✓ Fireproof Perlite Boards
- ✓ Intumescent Fire Seals



FP1000 | Fire Resistant Calcium Silicate Boards

High Fire Resistance : Upto 120 Minutes with 9 mm Thickness
 Longer Guarantee Life : More than 15 Years
 High Insulation : Acoustic & Thermal

Applications

- Low cost 60 to 120 Minutes Fire Doors
- Fire Resistant Acoustic Door
- Access Panel & Trap Doors
- Lift Doors & Fire Escape Area
- Aesthetic curved ceiling
- Moisture resistance ceiling Backing wall for wet area ceramic tiling
- Casings for building services
- Fire rated backing board for metal claddings
- Fire rated industrial wall linings
- Perforated finishes for acoustic space
- Fire resistant barriers and spandrels
- Fire protection to concrete structures



Specification		
Density	1000 kg/m³ +/-10%	
Nominal weight	6.6 kg/m²	-6mm
	9.9 kg/m²	-9mm
	12.6 kg/m²	-12mm
	*other thicknesses of board may be produced to special order	
Size	1220 x 2440mm	
	1200 x 2400mm	
	*All boards come with cutting square edges. Recessed edges can be produced upon request.	
Color	Natural off-white	
Finish	Sanded smooth surface on one side & slightly textured reverse	
Manufacturing Tolerances	Length	+/- 5mm
	Width	+/- 5mm
	Diagonal	+/- 5mm
	Thickness	+/- 0.3mm
		+/- 0.6mm *greater board thickness
	* Standard full sized board & maximum thickness = 25mm	

Thermal Conductivity		≤0.14	W/ (m•k)
Water Contain		≤10	%
Moisture Movement		≤0.25	%
Heat Shrinkage		≤0.5	%
Bending Strength	Cross	≥10	Mpa
	Parallel	≥8	Mpa
Ratio Of Cross And Parallel Bending Strength		≥58	%

HDRW 850 | High Density Rockwool Boards

Wedge HDRW 850 are Refractory Insulation Boards are made of high quality refractory grade mineral fibers rockwool bonded with high temperature clays. These insulation boards possess unique combination of properties for various industrial applications in furnace backup insulation, fire rated doors, fire protection & heat shield, high temperature gasketing & seals.

- Strong Rigid Boards with high compressive strength.
- High temperature resistance upto 850 °C.
- Very low Thermal Conductivity at high temperatures.
- High Electrical Resistance at high temperature.
- High fire resistance and heat shield properties.
- Easy to cut, laminate, and punch.
- Adaptable by wet moulding for pipe insulation.

Applications:

- Fire Resistant Wooden Doors Manufacturing
- Fire Resistant Steel Doors Making
- Fire Resistant Lift Doors Manufacturing
- Heat Shield / Thermal Protection
- Fire Protection Systems
- Fire Resistant Partitions
- Electrical & home appliances insulation gaskets



Technical Properties	HDRW 850
Colour	Light Brown
Classification Temperature, °C	850
Density, Kg/M3	950
Thermal conductivity, W/m.K	
400 °C	0.10
600 °C	0.11
800 °C	0.12
Fire Resistance for 10 mm thickness, minutes	120
Fire Resistance for 5 mm thickness, minutes	60
Tensile Strength, Mpa	3.5
Shrinkage % @ 1000 °C	2
Compression @ 70 Kg/cm2	15

WEMAG-S 1000 | Chloride free MgO Boards

WEMAG-S 1000 is a Chloride free Magnesium Sulphate MgO Board. It is a perfect green building product and environmentally friendly board. The board is made of high purity magnesite (magnesium oxide), magnesium sulphate, wood fiber, and water repellent perlite. WEMAG-S 1000 is fire resistant, corrosion resistant, non-flammable water resistant board most suitable for ceilings, wall, partitions, and decorative applications.

Main Features & Benefits

- Without chloride elements
- Solve the problems of light corrosion and expansion
- Fireproof, waterproof, shockproof, tasteless, non-toxic
- Does not rot, does not crack, deformable
- Non-combustible, high strength, light weight,
- Convenient construction, long service life

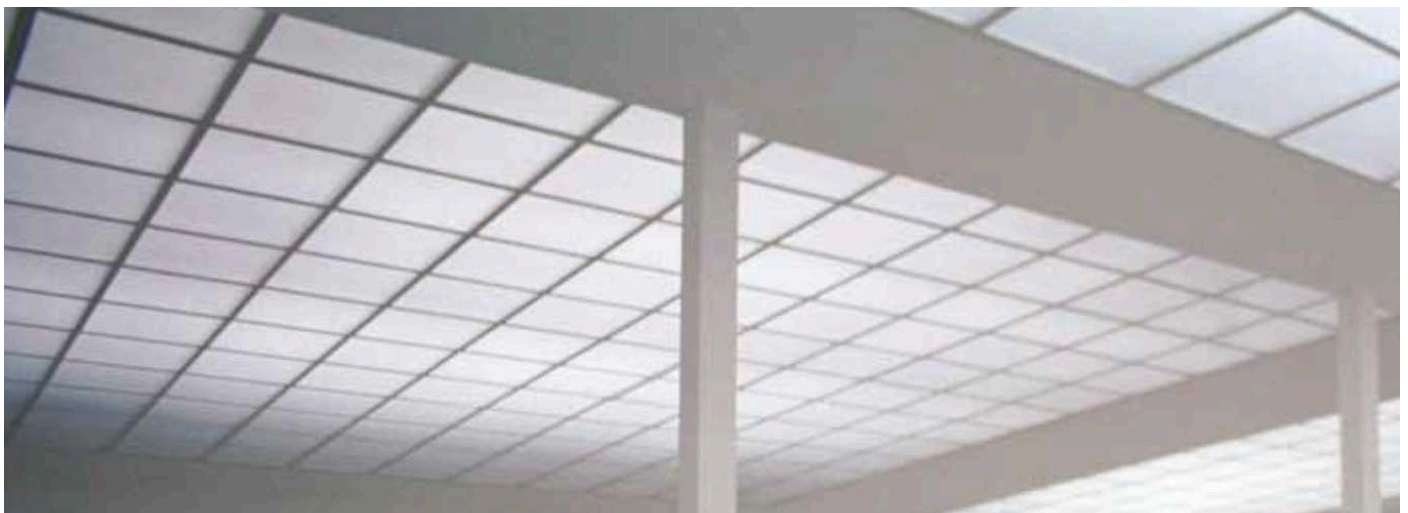
Applications

- For Internal Wall, Partition & Ceiling
- The Decorative applications
- The Sub-roof board
- The Underlay board for Floor and Wall tile



Technical Properties:

Base Materials		Magnesium Oxide (MgO) & MgSO ₄
Flexural Strength	Mpa	11
Impact Strength	KJ/m	20 - 21
Thicknesses	mm	6, 8, 10, 12, 14
Sizes	mm	1200 x 800; 1200 x 2400
Density	Kg/m ³	1000 – 1050
Thermal Conductivity	W/mk	0.178
STC	12mm – 41	34 ~ 54
Combustion	Grade	A1



WEMAG-C 1000 | Commercial Grade MgO Boards

WEMAG-C 1000 is a traditional Magnesium Oxide Board. It is eco-friendly building. The board is made of high purity magnesite (magnesium oxide), magnesium chloride, wood fiber, and water repellent perlite. WEMAG-S 1000 is fire resistant, non-flammable water resistant board most suitable for ceilings, wall, partitions, and decorative applications.

Main Features & Benefits

- Fireproof, waterproof, shockproof, tasteless, non-toxic
- Low cost soundproof, impact resistant
- Does not rot, does not crack, deformable
- Non-combustible, high strength, light weight,
- Convenient construction, long service life

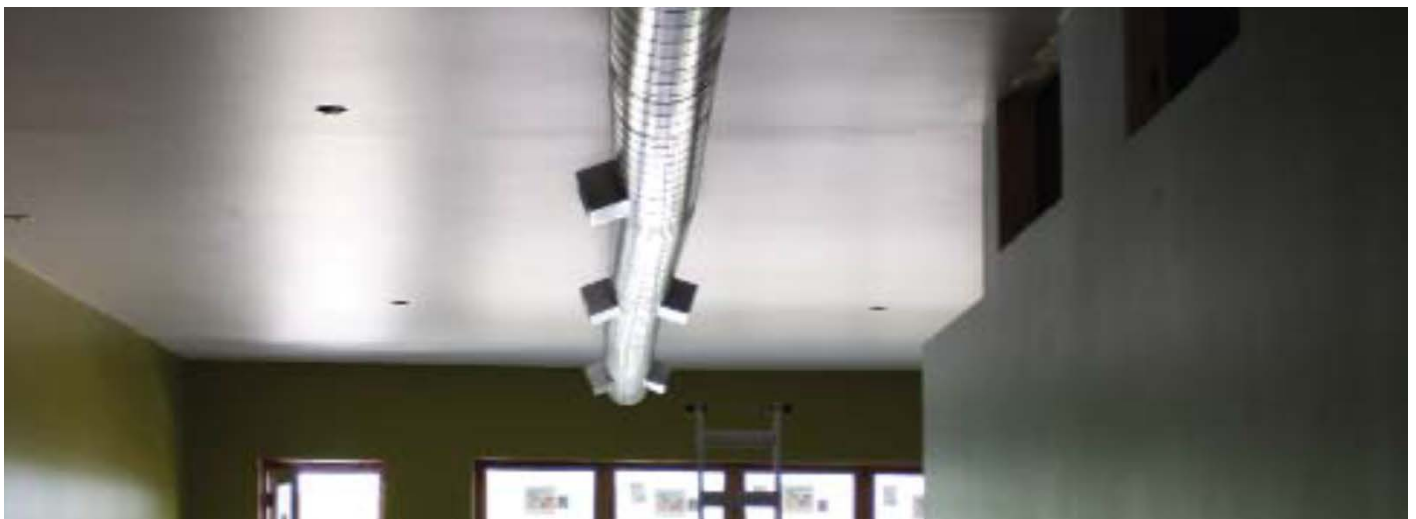
Applications

- For Internal Wall, Partition & Ceiling
- Non combustible furniture, doors
- HVAC, Spandrel walls
- Penetration seals of fire stopping
- The Decorative applications
- The Sub-roof board
- The Underlay board for Floor and Wall tile



Technical Properties:

Base Materials		Magnesium Oxide (MgO)
Flexural Strength	Mpa	18 - 27
Impact Strength	KJ/m	20 - 21
Thicknesses	mm	6, 8, 10, 12, 14
Sizes	mm	1200 x 800; 1200 x 2400
Density	Kg/m3	1000
Thermal Resistance	m2k/w	1.14
Thermal Conductivity	W/mk	0.167
Sound Insulation	dB	> 44
Combustion	Grade	A1



INTUR | Rigid Intumescent Fire Seal Strips

Rigid types of Intumescent fire seals are most suitable for severe application where regular door maintenance is not possible. The PVC covering to the graphite intumescent seal protects from wearing out due to any mechanical damage to the seals.

At wedge we produce and supply different versions including fire only, fire & smoke, fire & acoustic, and fire & weather proof seals of Rigid Fire Seals depending on the end user requirements.

In the event of a fire the INTUR intumescent graphite seal expands multiple times its original volume and seals the gap around the door edges and joints to provide fire barrier and stop the passage of fire, smoke and hot gases. Surface Mounted Acoustic & Smoke Door Bottom Seals or Rebate Fit Acoustic & Smoke Door Bottom Seals are most suitable for the door bottom sealing. All fire and smoke seals are supplied with a self-adhesive backing tape as standard to facilitate quick and easy fitting. All the seals are Tested for 30 minutes, 60 Minutes, and 120 Minutes to BS 476 part 22 & 31.1. Smoke seals tested to EN1634-3 to 100,000 open/close cycles.

Fire Protection Only

- Applied in the Fire Door assemblies where no threat of Smoke
- Available in 2.1 meter and 1.05 meter lengths
- Self adhesive type
- Fire rating from 30 to 120 minutes
- Thickness 4 mm and width 10 mm to 25 mm



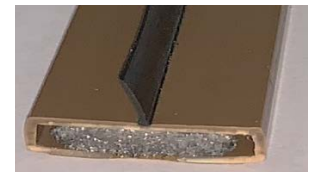
Fire & Smoke Protection with Brush

- Protects against damages from Fire & Smoke
- Available in 2.1 meter and 1.05 meter lengths
- Self adhesive type
- Fire rating from 30 to 120 minutes
- Thickness 4 mm and width 10 mm to 25 mm



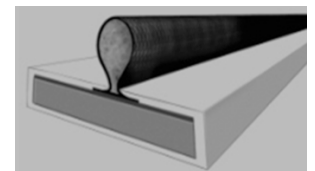
Fire & Smoke Protection with Neoprene single / twin blade

- Protects against damages from Fire & Smoke
- Available in 2.1 meter and 1.05 meter lengths
- Self adhesive type
- Fire rating from 30 to 120 minutes
- Thickness 4 mm and width 10 mm to 25 mm



Fire, Smoke, Acoustics, and Weather Protection

- The complete protection from fire, smoke, noise, heat, and water
- Available in 2.1 meter and 1.05 meter lengths
- Self adhesive type
- Fire rating from 30 to 120 minutes
- Thickness 4 mm and width 10 mm to 25 mm



Technical Properties:

Base Materials		: Intumescent Graphite
Covering Material		: PVC in colours as desired
Type		: Rigid with Self Adhesive
Colours		: Brown, Red, Black, White, Grey
Length	meter	: 2.1, 1.05
Width	mm	: 10, 15, 20, 25
Thicknesses	mm	: 4
Activation Temperature	°C	: 180 to 200
Fire Ratings	Minutes	: 30, 60, 90, 120

INTUF | Flexible Intumescent Fire Seal Strips & Sheet

INTUF is a rubber free zero halogen intumescent fire seal that in case of fire expands 20 to 60 times without generating any harmful or toxic gases. These are high performance and high expansion Intumescent fire seals without any PVC coverings.

These strips are most suitable for applications in wooden fire doors, manufacturing PVC covered rigid intumescent strips, glazing seals, manufacturing intumescent hinge pad seals, door hardware and ironmongery protection, damper seals, gap sealing or a variety of gasketing applications.

INTUF is highly flexible allowing it to be wrapped or folded to suit various applications but produces an excellent char structure helping to maintain integrity throughout the fire.

Features and Benefits

- Zero halogen intumescent fire seals
- Rubber free and do not generate any toxic smoke
- Generates high expansion when exposed to fire or heat
- Produces an excellent char structure to provide high integrity
- Available in strips 2.1 meter and 1.05 meter lengths
- For bulk use available Sheets 2100 x 1000 mm size
- Self adhesive type
- Fire rating from 30 to 120 minutes
- Thickness from 0.5 mm to 2.5 mm
- 30 years guarantee life



Technical Properties:

Base Materials		: Zero Halogen & Rubber free Intumescent Graphite Laminate
Covering Material		: Without covering or PVC in colours as desired
Type		: With or without Self Adhesive
Colours		: Dark Grey
Length	meter	: 2.1 & 1
Width	mm	: 10, 15, 20, 25, 30, 40, 50, 60, 80, 100, 500
Thicknesses	mm	: 0.5, 1, 1.3, 1.8, 2, 2.1, 2.5
Density	Kg/m ³	: 750 to 800
Activation Temperature	°C	: 180 to 200
Free Expansion Ratio	@ 400 °C	: 20 / 1
Fire Ratings	Minutes	: 30, 60, 90, 120
Guarantee Life	Years	: 30

