PROUDLY DESIGNED IN SOUTH AFRICA

THE BEST ROOFING SOLUTION IN THE BUSINESS.

*We're all about **innovation and breaking boundaries**.*

SCRIM FACING
INSULATION

CHANGING THE GAME OF INSULATION

Getting to know the **Scrim Facing Insulation** brand

SCRIM FACING INSULATION is a brand of specialised thermal insulation products catering to the construction industry. This aluminium based product serves as a double-sided reflective radiant barrier in domestic and industrial roof systems. The product reflects heat away from buildings in warmer months and retains heat in cooler months, thus stabilising temperatures. It can also be used in walls behind cladding or under timber floors. Combining the product with glass wool, rock wool or foam insulation, it becomes an excellent vapour barrier for air conditioning ducts, pipes and vessels. The combination and composition of product layers can be modified to suit specific customer needs for different applications.

THE BEST ROOFING SOLUTION IN THE BUSINESS

OUR PRODUCTS

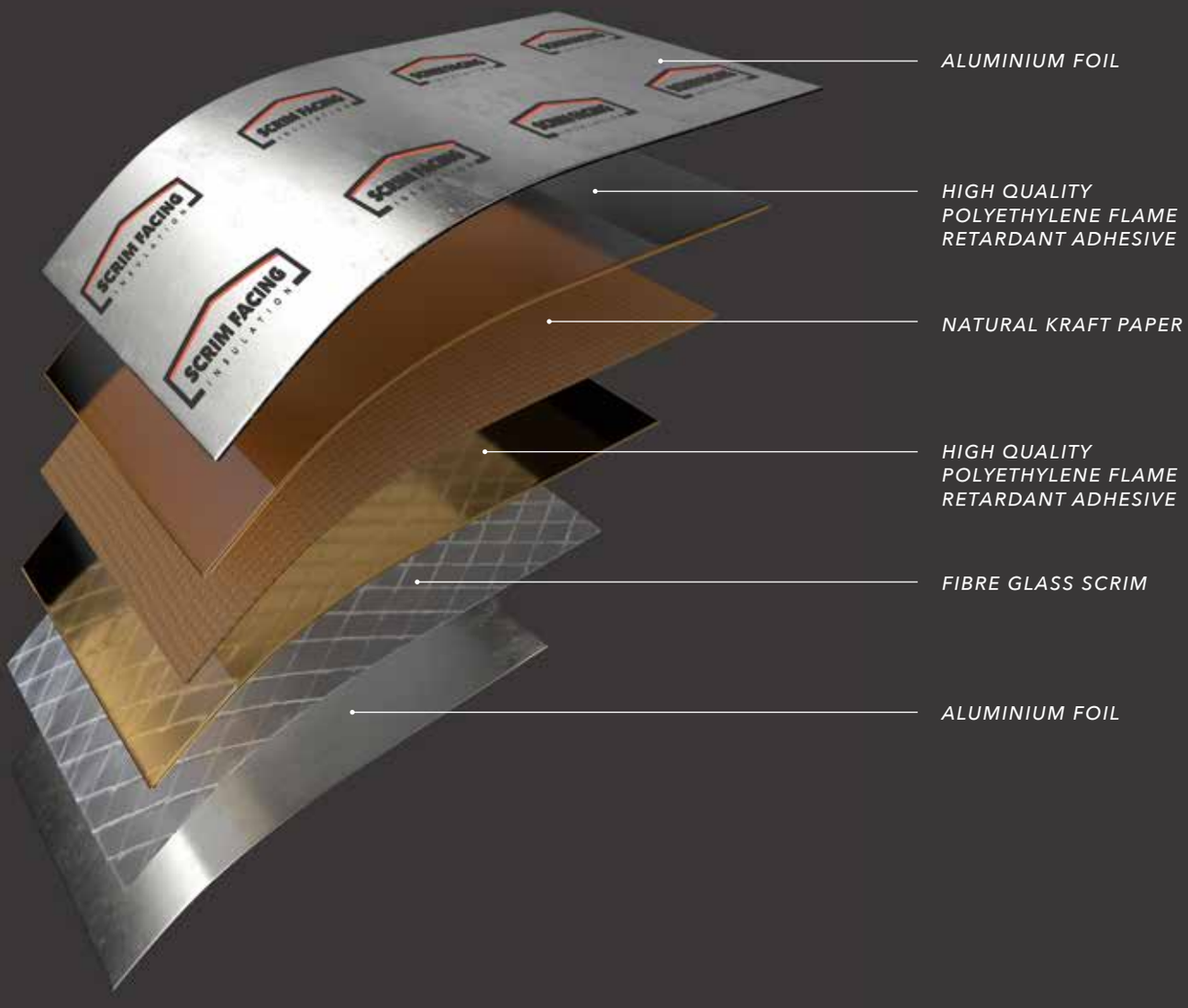
Scrim Facing Insulation offers a Domestic and an Industrial grade of product.

Domestic Grade
DFR180
180 gsm

Industrial Grade
DFR251
251 gsm

OUR COMPOSITION

Both of our products are made with two outer layers of pure aluminium foil and one layer of natural Kraft Paper. These layers are bonded together with a flame retardant polyethylene adhesive and reinforced with two-way fibreglass scrim.



CHANGING THE WAY PEOPLE SEE SPECIALISED THERMAL INSULATION PRODUCTS •

THE BEST ROOFING SOLUTION IN THE BUSINESS

THERMAL RESISTANCE

R Value measures the thermal resistance of heat transfer through the product. The higher the R Value, the less heat is transferred through the product and therefore exhibits greater insulation properties. This value is measured as a reciprocal of the rate of heat transfer in watts, through one square meter of structure, divided by the difference in temperature across the structure. It is expressed in watts per square meter Kelvin. A roofing system with Scrim Facing Insulation has an R Value of between 1.45 and 1.6, tested using standard ISO6946.

FIRE RATING

Flame Spread and Combustibility are two critical factors of Thermal Roof Insulation.

DFR180

DFR180 is classified in Accordance with SANS 428 using the SANS 10177 Part 5 and Part 10 test.

SANS 10177 – 5	A (NON-COMBUSTIBLE)
SANS 10177 – 10	A/A3

Conclusion: The product is suitable for use in domestic and residential application.

DFR251

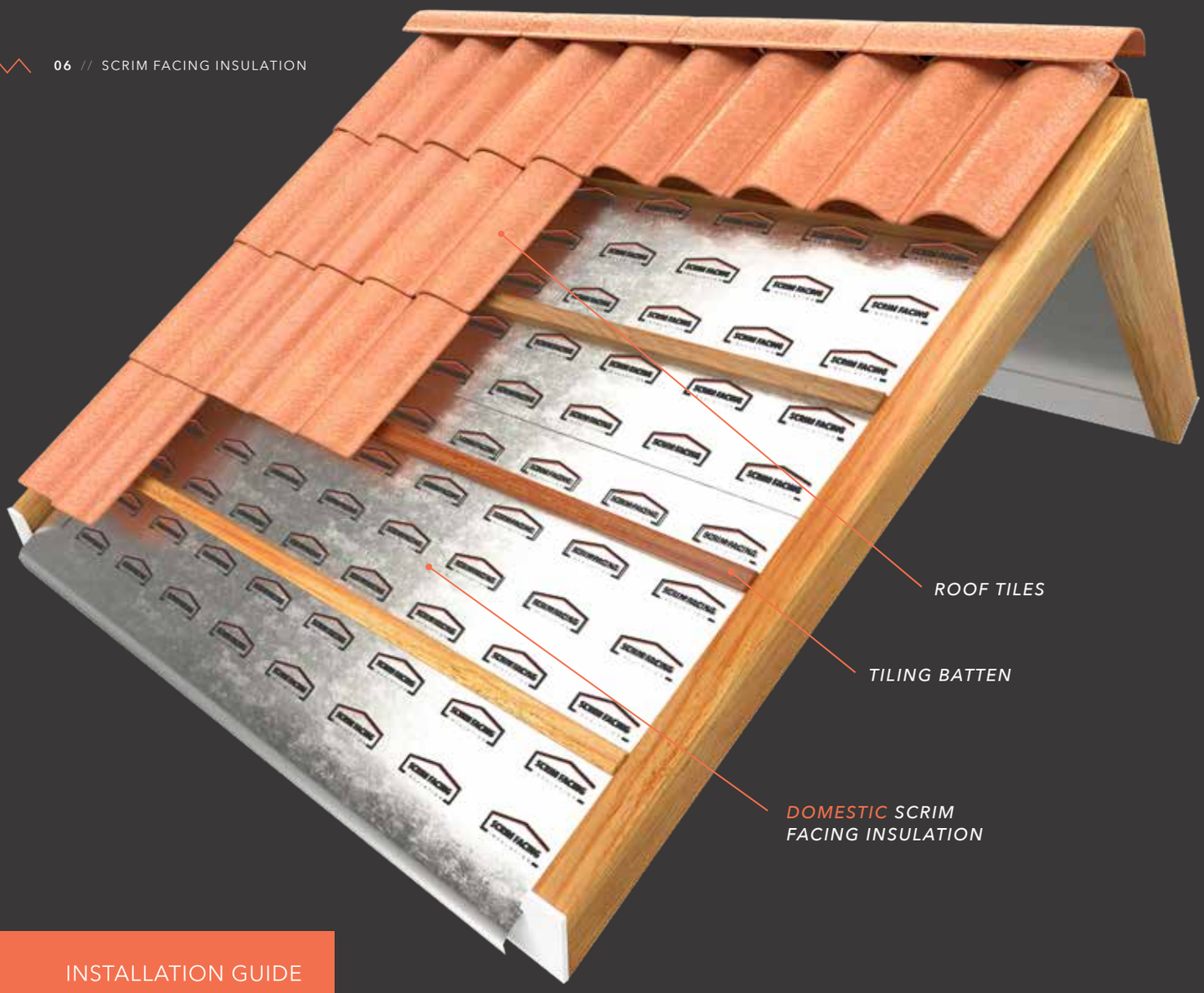
DFR251 is classified in Accordance with SANS 428 using the SANS 10177 Part 5 and Part 10 test.

SANS 10177 – 5	A (NON-COMBUSTIBLE)
SANS 10177 – 10	A/A1

Conclusion: The product is suitable for use in any application. Both the Domestic Grade and Industrial Grade product have UL723 Certificates, the highest standard of testing in the World. Receiving Class A in Flame Spread and Combustibility. The products have also been tested under standards ASTM E84 and British Standards 476, point 6 and 7 and passed.

STORAGE CONDITIONS

- Only remove packaging shortly before the product is going to be applied.
- Do not expose to direct sunlight for extended periods of time before it is applied.
- Do not wet the product before application.
- Storage at relative humidity at temperatures between 18 to 25°C.
- Store upright with shelf life of one year.



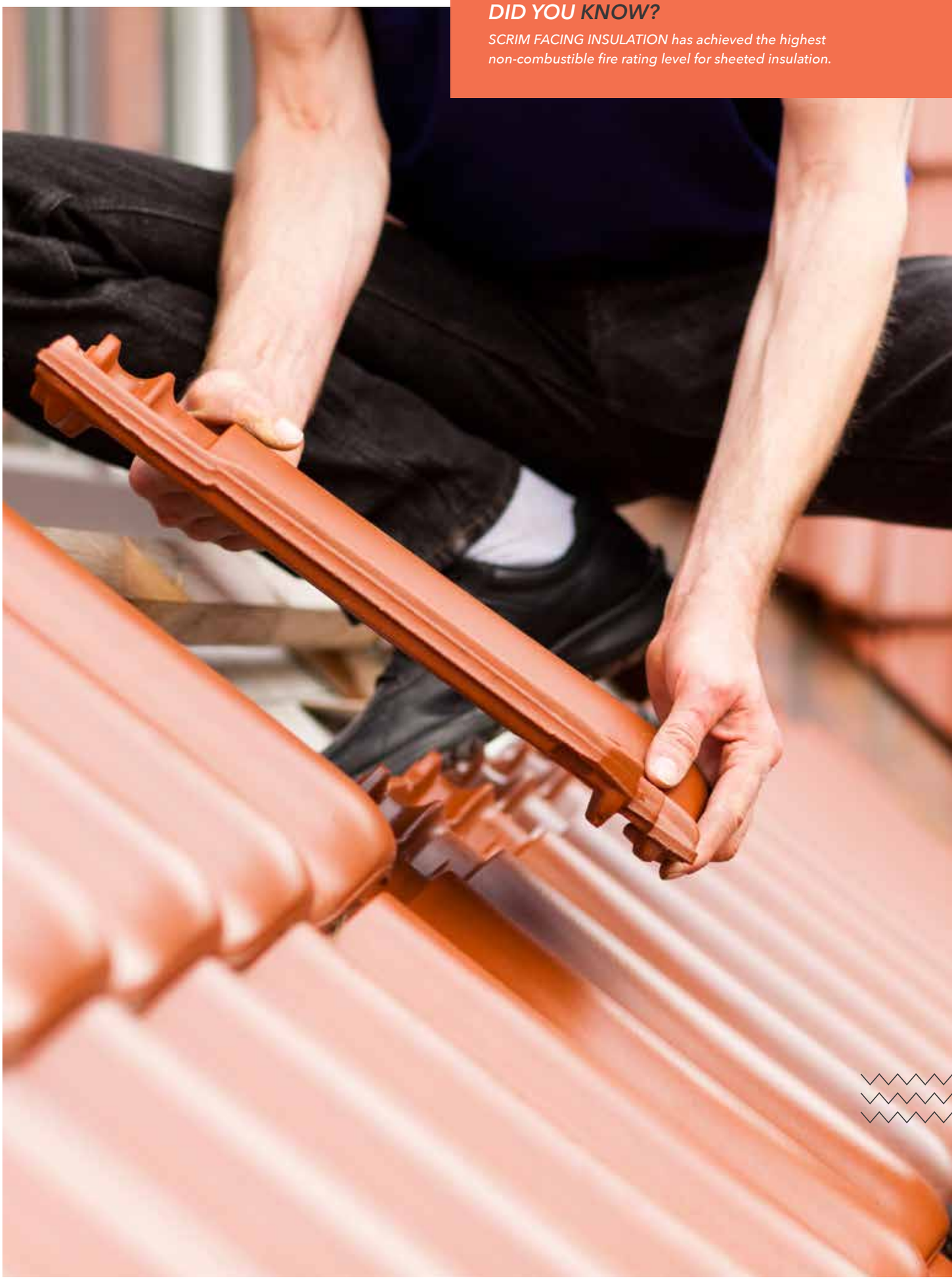
INSTALLATION GUIDE

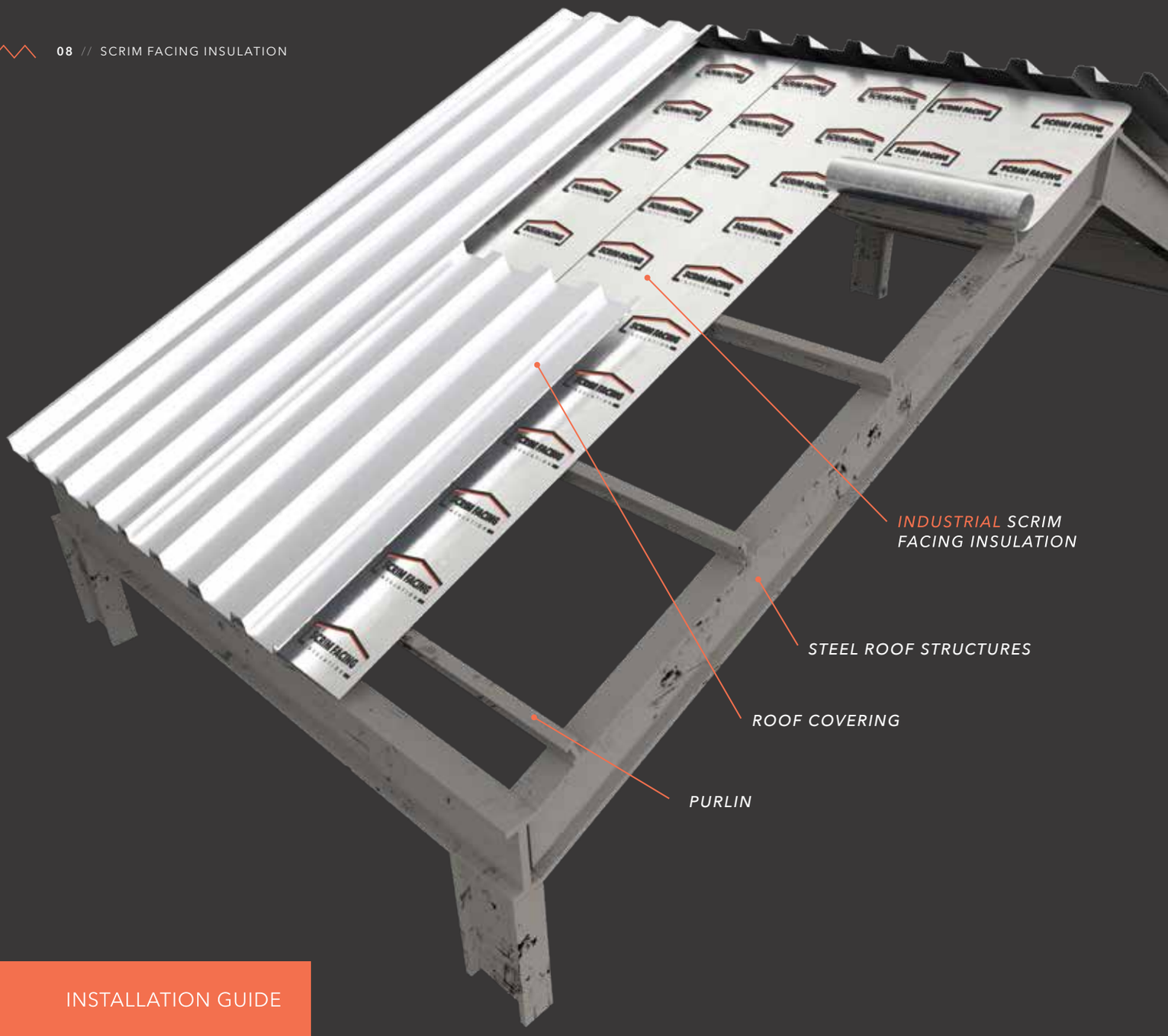
DOMESTIC GRADE

- Usually installed in **roofing systems with tiles, tiling battens, roof rafters and an apex ridge.**
- The product **lies beneath the tiling battens**, secured by the rafters where the tiles or tin cover the tiling battens.
- The product should be **laid horizontally in the same direction** as tiling battens with a minimum of 150mm overlap on the layers. The product should be laid from the bottom of the roof towards the apex for better waterproofing.
- It is important that the product is pulled tight across roofing system to improve dust control, water run-off and insulation properties.
- The product can **either be secured using nails, staples or double-sided tape.** It is important that the product is properly secured to avoid creases, gaps or tears. Please ensure that no damaged material is installed as this will affect the performance of the product.
- Please ensure the product is **secured firmly with an extra overlap** at the apex and gutters of the roof. This will significantly reduce the chances of tears or delamination.
- The Scrim Facing Insulation can be repaired using Aluminium foil tape or Foil Scrim Kraft tape.

DID YOU KNOW?

SCRIM FACING INSULATION has achieved the highest non-combustible fire rating level for sheeted insulation.





INSTALLATION GUIDE

INDUSTRIAL GRADE

- Used in the **roofing system of factories** and warehouses involving steel roof structure, PVC straining wires and steel battens.
- The PVC straining wires should **run above steel battens** where the Scrim Facing Insulation is secured to the PVC straining wires.
- The product should be **laid vertically** in the same direction as the straining wires with a 150mm overlap. It is recommended that the straining wires are spaced at 350mm intervals with the first straining wire secured at 75mm from the gable end.
- It is important that the product is **laid tight against PVC straining wires** and is secured using nails, staples or double-sided tape. Please allow for extra overlap at bottom and apex of roof.
- For industrial application, it is advised that this product is **installed by a licensed contractor** to improve effectiveness of product regarding fire, waterproofing, dust and thermal insulation.

DID YOU KNOW?

Scrim Facing DFR251 can reduce the temperature of your industrial property by over 3 degrees °C during the hot months of Summer.

DOMESTIC GRADE

D/S Reflective Aluminium Foil Insulation DFR180 (Domestic Grade)

A medium to light duty roof insulation product specifically designed for residential and commercial buildings. The four-layer composition, with a total weight of 180 gsm, provides excellent insulation properties to your roofing system at an economical cost.

FACING COMPOSITION		
Composition	**Description**	**Value (Metric)**
Foil	Aluminium	12 micron
Reinforcing – MD	Fiberglass	8/100mm
Reinforcing – XD	Fiberglass	12/100mm
Adhesive	Polyethylene	-
Kraft	Natural	120 gsm
Adhesive	Polyethylene	-
Foil	Aluminium	7 micron

TYPICAL PHYSICAL PROPERTIES		
Physical Properties	**Test method**	**Value (Metric)**
Basis Weight	Scale	180 gsm
Permeance (WVTR)	ASTM E96, Procedure A	1.15 ng/N.s
Tensile Strength - MD	ASTM D828	255 N/25mm
Tensile Strength - XD	ASTM D828	130 N/25mm
Burst Strength	ASTMD774	55 N/cm^2
Low temp resistance	ASTM D1790 - 4 hrs @ -40°F (-40°C)	Remains Flexible. No delamination
High temp resistance	ASTM D1790 - 4 hrs @ 240°F (116°C)	Remains Flexible. No delamination
Emissivity	ASTM E408	0.03
Fire Rating	UL723/ASTM E84	Less 25/50 – Passed
Fire Rating	SANS10177 Part 5 & 10	A/A3
Dimensional Stability	ASTM D1204 @150F 65C	Less than 0.5%
R Value	ISO6946	1.45 kw/ M^2

Properties: Non-Combustible
Assists with Dust and Waterproofing
Controls and regulates temperature, reduces energy consumption

Roll Size : 1200mm x 40m

INDUSTRIAL GRADE

D/S Reflective Aluminium Foil Insulation DFB251 (Industrial Grade)

A heavy-duty roof insulation product specifically designed for systems in industrial buildings. This premium roof insulation product regulates temperatures and serves as a dust and waterproof barrier in the roofing systems of factories.

FACING COMPOSITION		
Composition	**Description**	**Value (Metric)**
Foil	Aluminium	7 micron
Reinforcing – MD	Fiberglass	5mm spacing
Reinforcing – XD	Fiberglass	5mm spacing
Adhesive	Polyethylene	-
Kraft	Natural (flame retardant)	180 gsm
Adhesive	Polyethylene	-
Foil	Aluminium	7 micron

TYPICAL PHYSICAL PROPERTIES		
Physical Properties	**Test method**	**Value (Metric)**
Basis Weight	Scale	251 gsm
Permeance (WVTR)	ASTM E96, Procedure A	1.15 ng/N.s
Tensile Strength - MD	ASTM D828	255 N/25mm
Tensile Strength - XD	ASTM D828	160 N/25mm
Burst Strength	ASTMD774	80 N/cm^2
Low temp resistance	ASTM D1790 - 4 hrs @ -40°F (-40°C)	Remains Flexible. No delamination
High temp resistance	ASTM D1790 - 4 hrs @ 240°F (116°C)	Remains Flexible. No delamination
Emissivity	ASTM E408	0.03
Fire Rating	UL723/ASTM E84	Less 25/50 – Passed
Fire Rating	SANS10177 Part 5 & 10	A/A1
Dimensional Stability	ASTM D1204 @150F 65C	Less than 0.5%
R Value	ISO6946	1.58 kw/ M^2

Properties: Non-Combustible
Assists with Dust and Waterproofing
Controls and regulates temperature, reduces energy consumption

Roll Size : 1200mm x 40m

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WE WOULD LOVE TO
HEAR FROM YOU...

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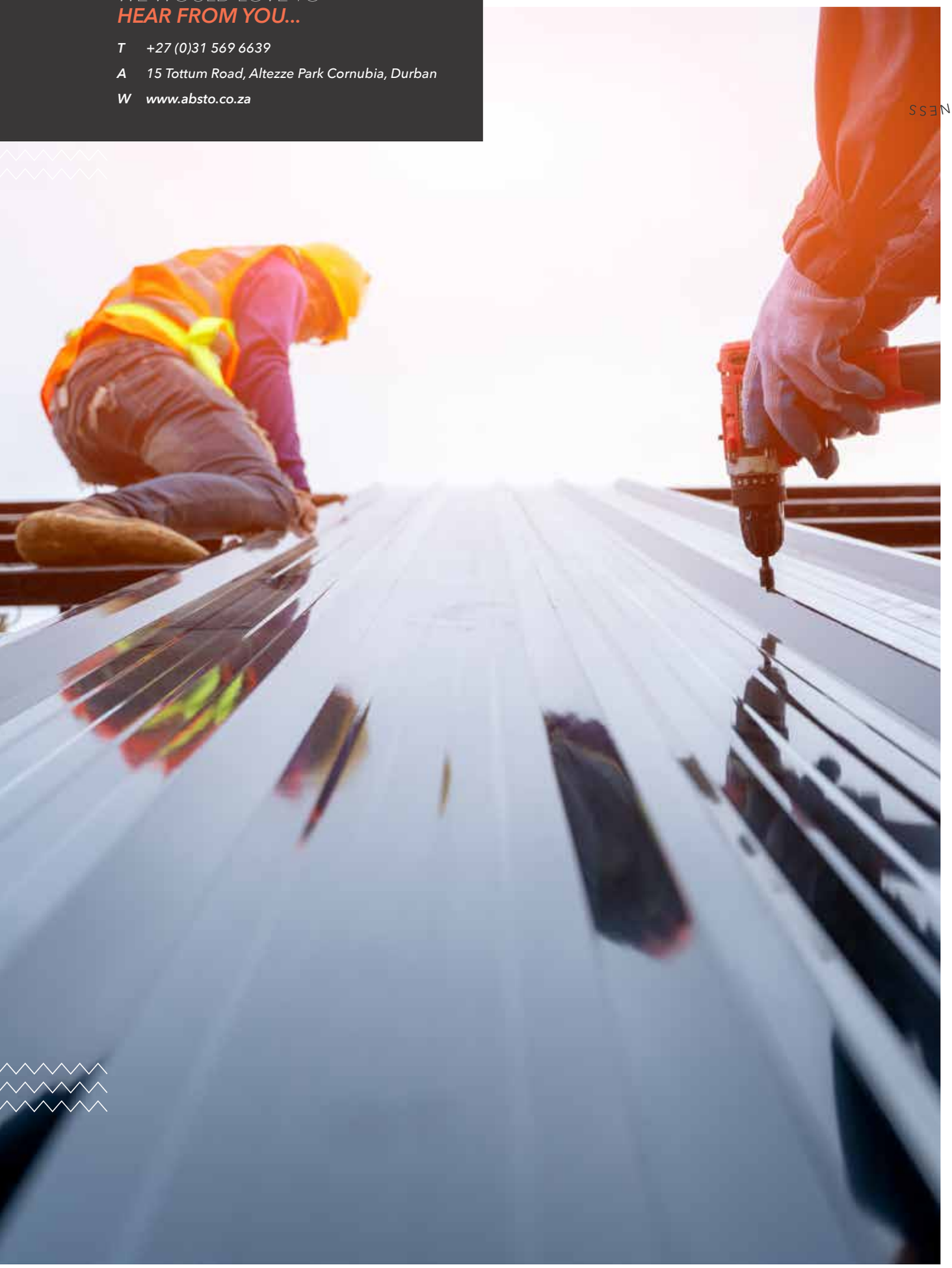

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