

DATA SHEET

SUPER SISALATION® 480

PRODUCT DESCRIPTION

Super Sisalation® 480 consists of aluminium foil on both faces bonded to high strength kraft paper using polymeric adhesive. This structure is reinforced using polypropylene fabric and bonded together using a flame retardant adhesive system.

PRODUCT FUNCTIONS

(A) Insulation

Super Sisalation® 480 when used in conjunction with an air space is an effective thermal insulating material for radiant and convective heat.

(B) Sarking Membrane

Super Sisalation® 480 makes an ideal sarking and sheathing where additional weather protection is required. The aluminium foil prevents the ingress of liquid water and provides a high degree of resistance to the passage of water vapour.

(C) Factory Lighting Improvement

Super Sisalation® 480 has a high light reflectivity. When installed in industrial building as an exposed internal ceiling, the reflectivity of the ceiling is improved by up to 40%. This results in lower energy costs and improved light distribution.

(D) Water Vapour Barrier Membrane

Super Sisalation® 480 has a water vapour permeance of less than 1 ng/Ns. This makes the product an ideal carrier membrane for bulk insulation and prevention of condensation problems for roofs.

PRODUCT APPLICATIONS

(A) Super Sisalation® 480 for Commercial Applications

Super Sisalation® 480 has been designed to replace wire support for rafter spacings up to 2m apart. When tested in comparison with 1.25mm wire mesh with strands 50mm apart in a grid, this product withstood loads 50% higher than wire mesh. When tested in accordance with AS1562 - 1973,

“Design and Installation of Self Supporting Metal Roof Without Transverse Gaps”, this product fulfilled the concentrated load test in respect of a person standing on it. “YOU DON’T NEED A WIRE MESH SUPPORT UNDER SUPER SISALATION® 480 IF THE RAFTER SPACING IS LESS THAN TWO METRES APART”

(B) Super Sisalation® 480 Under Tile Roof

When used under tile roof with a minimum of 100mm overlap, this product will perform extremely well as a sarking and insulating membrane.

Super Sisalation® 480 has been cyclone tested at the James Cook University, Queensland under outdoor exposure for 22 days at 33°C with wind velocities of 120km per hour and 10 days rain. The product did not show any signs of leakage, sag, tearing, delamination or lifting.

This product is recommended for use in high wind and high rainfall areas as sarking and insulation membrane under tile roofs.

Super Sisalation® 480 is laid over the rafters across the pitch and secured in place by the tiling battens. Start from the eave and fold the Super Sisalation® 480 back under itself 50mm on the lower edges and position this folded lower edge with a 25mm overhang down towards the gutter.

Allow a minimum of 150mm side lap with successive runs across the pitch. The end laps must allow one rafter overlap. Allow sagging of approx. 40mm between rafters to allow for quick run off in case of any leakage. Continue the Super Sisalation® 480 over the ridge. Secure the Super Sisalation® 480 in place by driving nails through the tiling batten into the rafter.

It may be necessary to work with small areas under windy conditions, by fastening the tiling battens down as the Super Sisalation® 480 is being unrolled.

Antiglare version is available Super Sisalation® 483.

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(C) Under Metal Deck and Fibrous Cement Roofing

Start from the ridge. Secure the Super Sisalation[®] 480 using fasteners with head area larger than 100mm². The fasteners should be located at least 100mm from the edge of the product to prevent pull through when it is being tensioned. Roll the Super Sisalation[®] down the pitch, pull it tight then fasten the lower end. Make sure that it is straight. Allow 150mm for side laps and end laps.

It will be necessary to tape the laps if the product is carrying glasswool or if a neater appearance is required. The laps can be taped either from above or below. Under windy conditions, it may be necessary to work with short lengths, and secure the Super Sisalation[®] 480 in place by installation of 2-3 fasteners at each cross beam.

If some areas of Super Sisalation[®] 480 appear to be slack, this can be corrected prior to fastening the roof by installation of foam blocks between Super Sisalation[®] and the roof sheeting.

FIRE RATING

AS1530 Part 2 - 1993

Test for Flammability of Materials

Flammability Index Not more than 5

BS476 Part 6 - 1989

Fire Propagation Test

Index of Performance I 6.2 Not more than 12

Sub-Index i₁ 2.7 Not more than 6

BS476 Part 7 - 1997

BS476 Part 6/7 tests completed 5th June 2006

Large Scale Surface Spread of Flame. Class One

APPROVED CLASS 'O' RATING IN ACCORDANCE

WITH SINGAPORE FIRE CODE

PHYSICAL PROPERTIES (TYPICAL)

Edge tear AS4200.1 - 1994

Machine Direction 250N

Lateral Direction 350N

Tensile Strength AS.4002.1 - 1994

Machine Direction 14.5kN/m

Lateral Direction 11.1kN/m

P.P.T. (ASTM D2582)

Machine Direction 50N

Cross Direction 100N

Bursting Force AS2001.2.1988. 430N

Nominal Manufactured Grammage 451g/m²

Water Vapour Permeance

(ASTM E96 Procedure E)

Uncreased Less than: 1ng/Ns

Creased (ASTM D1027) Less than: 2ng/Ns

I.R. Reflective of Foil Surface. 0.95

I.R. Emittance of Foil Surface. 0.05

PRODUCT DURABILITY

Excellent in normal building applications but roof or wall coverings should be installed without delay. If unusual conditions exist, please contact your nearest representative or direct enquiries to the address shown below.

QUALITY

Super Sisalation[®] 480 is manufactured to strict standards using controlled processes & raw materials. Our manufacturing processes are accredited to ISO 9002/AS 3902.

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