DURAFOIL INSUBUBBLE ®

SANS 1381-4:2013 Class E

FLAME RETARDANT

TELA REFLECTORA

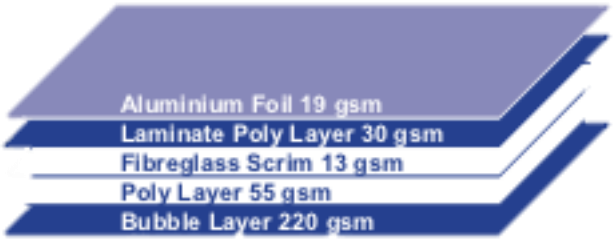
EASY FICHA TÉCNICA

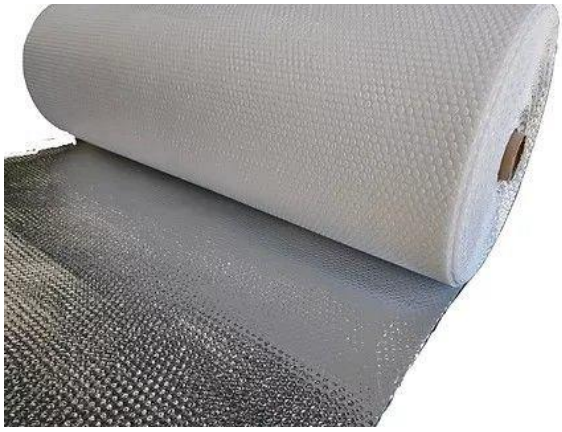
Durafoil Insububble is a four layer laminate which utilizes:

1) the foil layer for reflective isulation
2) a laminating layer
3) the spunbond layer for stability, strength and thermal isulation and
4) the polyethylene bubble layer for additional insulation.

The product is aesthetically pleasing and attractive when applied under metal roofs. Insububble can be used under domestic or industrial roofs. It is flame retardant, tested in terms of SANS 10177 the product has been classified as class B/ BI/2/H which means it has a superior flame retardancy and can be used in any structure with a B1 rating with sprinklers.

The product has been tested with sprinklers. Insububble has a strong tear resistance and will not expand when in contact with changing roof temperatures as in the case with other bubble type insulation membranes which consist mainly of polyethylene layers. Insububble is dimensionally stable and easy to work with.





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DATA	UNIT	UNIT
Class	–	E
Form	–	Roll
Length	mm	40m
Width	mm	1250
Thickness	mm	1.56
Mass per unit area	g/m2	360 ± 10%
Resistance to delamination		
a) Dry at elevated ambient temperatures	–	No delamination
b) Wet at elevated ambient temperatures	–	No delamination
c) Resistance to corrosion	–	No corrosion
Shrinkage:		
a) Machine direction	%	<1.5
b) Cross machine direction	%	<1.5
Emissivity	–	<0.05
Water vapour permeance:		
Reflective surface facing dessicant	g/(s.MN)	<0.002
Fire performance:		
Tested in terms of SANS101 77-11	Class	B/B1/2/H only
Tensile breaking strength:		
a) Machine direction	kN/m	>4.9
b) Cross machine direction	kN/m	>4.8
Bursting strength	kPa	>527
Puncture resistance	Mj	>3316
Edge tear resistance		
a) Machine direction	N	>250
b) Cross machine direction	N	>190
System thermal resistance:		
(Two air gaps - heat flow down)	(m2.K)/W	>0.90

INSTALLATION INSTRUCTIONS

1) Domestic specifications

One layer of Durafoil Insububble over rafters and under battens. Lay Durafoil Insububble longitudinally over the rafters working from the eaves to the ridge and lapped 150 mm at joins.

2) Industrial specifications

Fix strainer wires from ridge to eave purlins at 300mm to 600mm centres depending on the application. The wires must run on top of the purlins. Lay Durafoil Insububble over the strainer wires from the ridge to the eave. Secure Durafoil Insububble to leg face of top purlin, pull taught down to the eave and fix to bottom purlin. The Durafoil Insubble should be overlapped 150mm at each joint to ensure that the strainer wires support each lap.

Special precautions

The foil layer has a poor resistance to acids and alkalis and must not be used in contact with wet concrete or be exposed to a corrosive environment. Unless special precautions are taken, the atmosphere in the roof space can cause corrosion of the foil layer that will directly effect its emissivity and therefore its thermal insulation properties.

ADAPTED by GRUPO EASY

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