

# DURAFOIL ULTRA DOUBLE FOIL®

SANS 1381-4:2013 Class C

## POLYPROP NON-WOVEN MEMBRANE WITH FOIL LAMINATES

### DURAFOIL ULTRA DOUBLE FOIL

Durafoil Ultra Double Foil is a 5 layer laminate which carries the SANS 1381-4 mark Class C. It has been used extensively as an insulation membrane under tiled and metal roofs. The aluminium foil layers provide insulation, the top layer through reflectivity and the bottom layer through its low emissivity. There must be an air space of at least 50mm for the reflective surfaces to function efficiently. The product does not need to be scrim reinforced as the spunbond layer provides adequate strength and stability.

The product will also act as a dustproof layer when used under roof tiles and has excellent vapour resistance.

### DURAFOIL ULTRA DOUBLE FOIL®

SABS 1381-4: Class A

DATA	UNIT	LIMITS
Class	-	C
Form	-	Roll
Length	mm	40 000
Width	mm	1250 ± 5
Mass per unit area	g/m <sup>2</sup>	208 ± 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:	g/(s.MN)	< 0.002
Reflective surface fire index	Class	1
Tensile breaking strength		
a) Machine direction	kN/m	> 3.5
b) Cross machine direction	kN/m	> 3.4
Bursting strength	kPa	> 490
Puncture resistance	mJ	> 1500
Edge tear resistance		
a) Machine direction	N	> 70
b) Cross machine direction	N	> 50
System thermal resistance:		
Reflective surface facing hot surface	(m <sup>2</sup> .K)/W	> 1.2

### INSTALLATION INSTRUCTIONS

#### 1) Domestic specifications

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

#### 2) Industrial specifications

Fix strainer wires from ridge to eave purlins at 300 to 600mm centres depending on the application. The wires must run on top of the purlins. Lay Durafoil Ultra over the strainer wires from the ridge to the eave. Secure Durafoil to leg face of top purlin, pull taut down to the eave and fix to bottom purlin. The Durafoil should be overlapped 150mm at each point 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.



Aluminium Foil 19 gsm  
LDPE Bonding 23 gsm  
Spunbond 80 gsm  
LDPE Bonding 23 gsm  
Aluminium Foil 19 gsm



4