

BUBBLE FOIL (G)



Suitable to be used in roofing insulation as reflection or heat barrier in industrial, commercial and residential buildings, poultry houses metal roofing and house wrapping.

DESIGNED TO YOUR ADVANTAGE



foilTM
EnViro-tuff[®]

REFLECTIONS OF QUALITY AND RELIABILITY



Housing Project

EnViro-tuff[®] the superior foil that is specially designed to meet global standards. It meets your needs for an effective and cost efficient protection from the ravages of harsh weather conditions.



Warehouse Project

EnViro-tuff[®] has high reflective properties. Rigorous tests are constantly conducted to ensure its durability & reliability. It is proven for its effectiveness, making it the ideal choice for providing optimum insulations against radiant heat & moisture vapour. Light in weight yet strong and durable.



Poultry House Project

EnViro-tuff[®] is designed for easy handling and offers superior quality at the fraction of the overall building cost.

Premium Quality at Competitive Prices



97% Radiant Heat Reflectivity

EnViro-tuff[®] radiant barrier dramatically improves energy efficiency of a building by effectively reducing up to 97% of radiant heat.



Moisture Barrier (WVTR)

EnViro-tuff[®] is a good vapour barrier which specially designed to prevent any penetration of water and moisture-laden air, guarding against condensation, rot and mildew.



UV + Heat Stability

EnViro-tuff[®] has the ability to maintain its physical size and properties under extreme temperature changes.



Tear & Puncture Resistance

EnViro-tuff[®] is strong and has high tear resistant feature due to its superior reinforcement.



No Wire Netting

EnViro-tuff[®] being strong and durable is design without additional supporting material for installation.



Energy Saving

EnViro-tuff[®] radiant barrier is designed to provide good insulation to improve energy performance of the building and save energy.



Factory Project



Acoustic Features

EnViro-tuff[®] bubble foil range has noise reduction feature.



Fire Retardant

EnViro-tuff[®] fire rated series tested and complied with international standards such as BS 476 part 6 & 7, ASTM E84 and AS 1530.



Hotel Resort Project

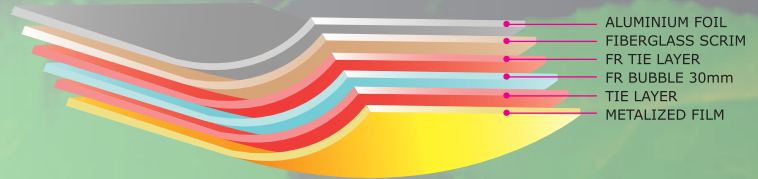


SIRIM
ISO 9001 : 2015
Certification No: QMS 00197



SIRIM
MS 2095 : 2014
PC002618

G 302B (AL/MPET)

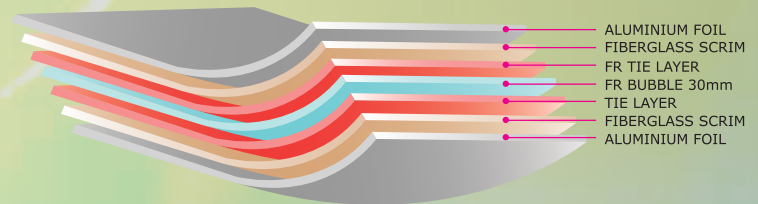


6 layers laminate made up of double sided reflective material (Aluminium & Metalized) bonded to FR bubble pack by special FR material.

Standard roll size : W 1.20m x L 30m

CHARACTERISTIC		TEST METHOD	UNIT (SI)	SPECIFICATION
Width		In-house	mm	Nominal ± 5
Length		In-house	m	Nominal (<50) $\pm 2.0\%$ Nominal (≥ 50) $\pm 1.0\%$
Grammage		BS EN 965	g/m ²	340 \pm 100
Resistance to Dry Delamination		AS/NZS 4201.1	-	No delamination
Resistance to Wet Delamination		AS/NZS 4201.2	-	No delamination
Shrinkage	MD CD	AS/NZS 4201.3	%	< 0.5 < 0.5
Duty				Extra Heavy
Tensile Strength	MD CD	AS/NZS 1301.448s	kN/m	> 4.5 > 4.5 > 80
Edge Tear Resistance		TAPPI T470	N	> 80
Vapor Barrier classification		ASTM E 96	MNs/g	Medium < 450 > 7
Emittance		ASTM C 1371	Index	Single Sided Reflective ≤ 0.05
Surface Water Absorbency		AS/NZS 4201.6	-	Unclassified
Thermal Resistance		ISO 8301/MS ISO 8302	M ² K/w	1.231

G 302A1 (AL/AL)



7 layers laminate made up of double sided reflective material Aluminium Foil bonded to FR bubble pack by special FR material.

Standard roll size : W 1.20m x L 30m

CHARACTERISTIC		TEST METHOD	UNIT (SI)	SPECIFICATION
Width		In-house	mm	Nominal ± 5
Length		In-house	m	Nominal (<50) $\pm 2.0\%$ Nominal (≥ 50) $\pm 1.0\%$
Grammage		BS EN 965	g/m ²	350 \pm 100
Resistance to Dry Delamination		AS/NZS 4201.1	-	No delamination
Resistance to Wet Delamination		AS/NZS 4201.2	-	No delamination
Shrinkage	MD CD	AS/NZS 4201.3	%	< 0.5 < 0.5
Duty				Heavy
Tensile Strength	MD CD	AS/NZS 1301.448s	kN/m	> 3.0 > 3.0 > 50
Edge Tear Resistance		TAPPI T470	N	> 50
Vapor Barrier classification		ASTM E 96	MNs/g	Medium < 450 > 7
Emittance		ASTM C 1371	Index	Double Sided Reflective ≤ 0.05
Surface Water Absorbency		AS/NZS 4201.6	-	Unclassified
Thermal Resistance		ISO 8301/MS ISO 8302	M ² K/w	2.209

FIRE RETARDANT TEST FOR G 302B & G 302A1

CHARACTERISTIC	TEST METHOD	UNIT (SI)	SPECIFICATION
Fire Propagation of Material Sub-Index, i_1	BS 476 ; Part 6	Index	Pass (<6)
Overall Performance Index			Pass (<12)
Surface Flame Spread Test	BS 476 ; Part 7	Class	Class 1
Fire Resistance Classification	-	Class	Class 0

Sample of Specification

V-Foil Enviro-tuff (G 302B & G 302A1) Fire Retardant Bubble Foil With Aluminium Foil And Metalized Foil Bonded To Bubble Pack With Fiberglass Scrim.

Details in accordance with manufacturer's instructions.

