



BFB 302 BUBBLE FOAM BUBBLE

HIGHER ENERGY MANAGEMENT

with **ENHANCED STRENGTH**

EnViro-tuff



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.



Energy Saving

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



No Wire Netting

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



SIRIM Certification

EnViro-tuff fire rated series are tested and certified to Sirim Products Listing.



Acoustic Features

EnViro-tuff bubble foam bubble 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.



**SAN MIGUEL YAMAMURA
WOVEN PRODUCTS SDN. BHD.**



SIRIM
ISO 9001 : 2015
Certification No: QMS 00197



SIRIM
MS 2095 : 2014
PC002618



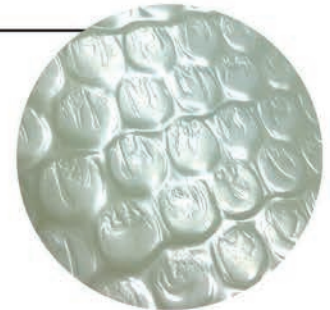
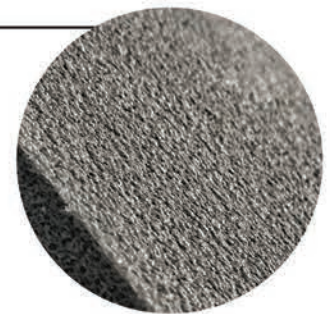
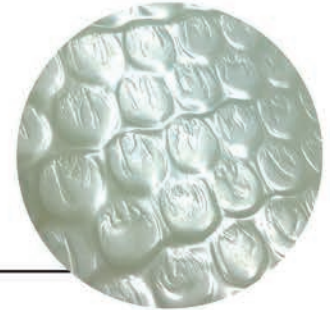
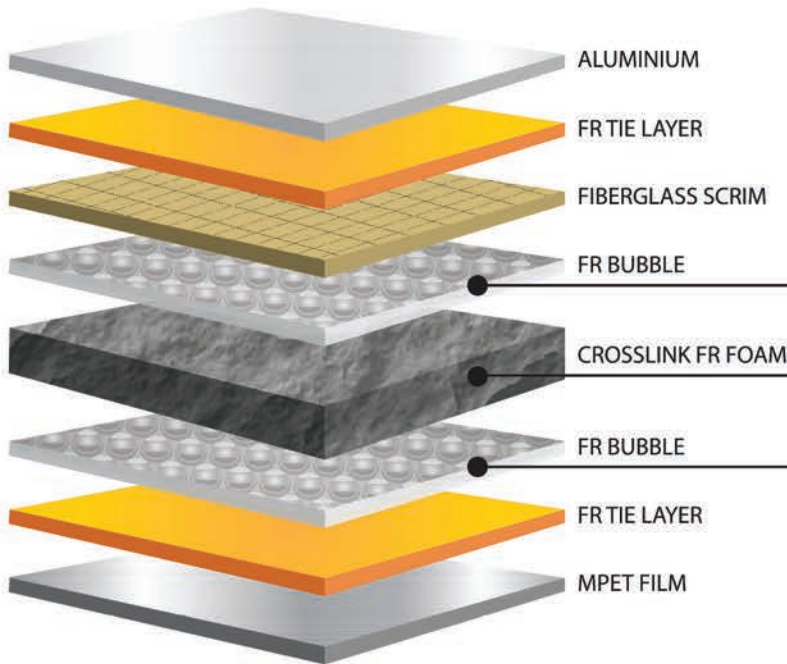
SIRIM
BS 476 : PART 6 : 1989 &
BS 476 : PART 7 : 1997
Reg No LS096501

**CIDB PPS REG. NO:
1140425ML0002**

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.

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. Strong and durable.

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



BFB 302

CHARACTERISTIC		TEST METHOD	UNIT (SI)	SPECIFICATION	
Laminated Roll Specifications	Width	In house	mm	Nominal ± 5	
	Length	In house	m	Nominal (< 50) ± 2.0% Nominal (≥ 50) ± 1.0%	
	Grammage	BS EN 965	g/m ²	475 ± 100	
	Resistance to Dry Delamination	AS/NZS 4201.1	-	No delamination	
	Resistance to Wet Delamination	AS/NZS 4201.2	-	No delamination	
	Shrinkage	MD	AS/NZS 4201.3	%	< 0.5
		CD			< 0.5
	Duty				Extra Heavy
	Tensile Strength	MD	AS/NZS 1301.448s	kN/m	> 4.5
		CD			> 4.5
	Edge Tear Resistance		TAPPI T470	N	> 80
	Vapour 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	1.557	

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FIRE RETARDANT TEST FOR XFW 301A			
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
Classification of Fire Hazard			Class O



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