

**IMPRESSIVE APPEARANCE**  
with even distribution

**EXCELLENCE TEAR RESISTANT**  
with special weaving technique

**OUTSTANDING DURABILITY**  
with new interlock structure

**ECONOMIC · QUALITY · RELIABILITY**

# EnViro-tuff®

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. Light in weight yet strong and durable.

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



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



ISO 9001 : 2015  
Certification No: QMS 00197



MS 2095 : 2014  
PC000947



BS 476 : PART 6 : 1989 &  
BS 476 : PART 7 : 1987  
Ref. No. L326501

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

# L 402

## VENO FOIL

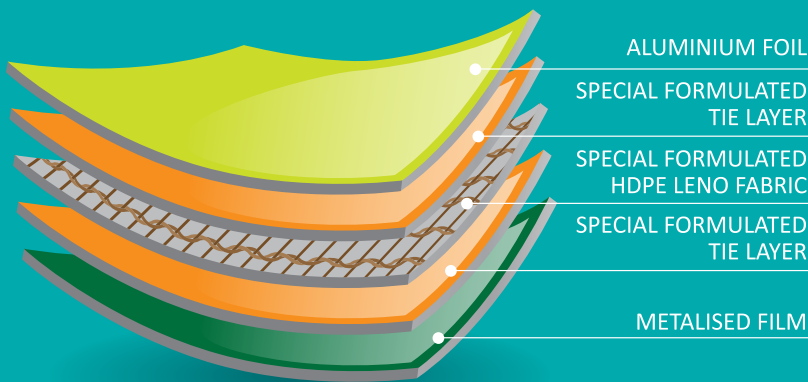
Enviro-tuff®

foil™

CHARACTERISTIC	TEST METHOD	UNIT (SI)	SPECIFICATION	CLASSIFICATION
Grammage	BS EN 965	g/m <sup>2</sup>	86 ± 10	-
Tensile Strength	MD	AS/NZS 1301.448s	> 6.0	Light
	CD		> 3.5	
Edge Tear Resistance	TAPPI T470	N	> 30	
Vapour Barrier	ASTM E 96	µg/N.s	≤ 0.002	High
Emittance	ASTM C1371	Index	≤ 0.05	Single Sided Reflective
Thermal Resistance	ISO 8301/MS ISO 8302	m <sup>2</sup> K/W	1.047	-

### L 402 (AL/MPET)

FIRE RETARDANT TEST L 402		
CHARACTERISTIC	TEST METHOD	SPECIFICATION
Fire Propagation of Material Sub-Index, $i_1$	BS 476 ; Part 6	<6
Overall Performance Index		<12
Surface Flame Spread Test	BS 476 ; Part 7	Class 1
Classification of Fire Hazard		Class O



5 layers FR compliance composite structure made up of double sided reflective material (Aluminium & metalized) bonded to high density polyethylene leno fabric by special material.



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### Premium Quality at Competitive Prices



**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.



**Tear & Puncture Resistance**  
Enviro-tuff is strong and has high tear resistant feature due to its superior reinforcement.



**Impressive Appearance**  
Enviro-tuff Veno series is design with an improve outlook for a more impressive appearance.



**Energy Saving**  
Enviro-tuff radiant barrier is designed to provide good insulation to improve energy performance of the building and save energy.



**Lightweight**  
Enviro-tuff is lightweight and strong, thus it makes installation work much efficient.



**UV + Heat Stability**  
Enviro-tuff has the ability to maintain its physical size and properties under extreme temperature changes.



**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.



**No Wire Netting- Able to support 80kg/m3 wool**  
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.



**San Miguel Yamamura Woven Products Sdn. Bhd.** 182297-H

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### Sample of Specification

V-Foil Enviro-tuff ( L402 ) Fire Retardant Leno Foil With Aluminium Foil And (Aluminium / Metalized) Foil Bonded To High Density Polyethylene Leno Fabric.  
Details in accordance with manufacturer's instructions.