



## TECHNICAL DELIVERY CONDITION

## Project: MRS1

## Aggregate

## Reinforced Aluminium Foil Tape

**DOC No.: GR/TD/5108**

**BEML Enquiry/ RFQ Reference :**

Sl. No.	Technical Delivery Conditions	COMPLIED	NOT COMPLIED			
1	Reinforced Al foil tape shall be of Aluminium foil reinforced with fibre glass and coated with acrylic adhesive which shall offer highly effective vapour barrier for glass wool insulation.	<input type="checkbox"/>	<input type="checkbox"/>			
2	Aluminum foil tape shall meet the following <b>technical requirements</b> .					
	Facing Composition	Description	Values (English)	Values (Metric)		
	Foil	Aluminum	0.000236 inch	7.0 micron	<input type="checkbox"/>	<input type="checkbox"/>
	Adhesive	Solvent Acrylic	-	-	<input type="checkbox"/>	<input type="checkbox"/>
	Liner	Suitable release liner	-	-	<input type="checkbox"/>	<input type="checkbox"/>
	Reinforcing / Backing	Fiber Glass	-	-	<input type="checkbox"/>	<input type="checkbox"/>
	Physical Properties	Test Method	Values (English)	Values (Metric)		
	Permeance (WVTR)	ASTM E-96 Procedure-A	0.02 perm	1.15 ng / N.s	<input type="checkbox"/>	<input type="checkbox"/>
	Bursting Strength	ASTM D-774	50 psi	3.2 kg/sq.cm	<input type="checkbox"/>	<input type="checkbox"/>
	Puncture Resistance	ASTM C- 1136	23 beach units	0.7 joules	<input type="checkbox"/>	<input type="checkbox"/>
	Tensile Strength	ASTM C1136	45 lbf/inch (MD) 30 lbf/inch (XD)	7.9 kn/m (MD) 5.3 kn/m (XD)	<input type="checkbox"/>	<input type="checkbox"/>

Sl. No.	Technical Delivery Conditions				COMPLIED	NOT COMPLIED
	<b>Physical Properties</b>	<b>Test Method</b>	<b>Values (English)</b>	<b>Values (Metric)</b>		
	Caliper / Thickness	Micrometer	0.0078inch	200 micron	<input type="checkbox"/>	<input type="checkbox"/>
	Adhesion to steel	ASTM D-3330	2.85 - 3.71 lbf/inch	65 – 75 N/100 mm	<input type="checkbox"/>	<input type="checkbox"/>
3	Test reports from NABL accredited labs for the above physical properties shall be submitted before supplies and similar test reports &.				<input type="checkbox"/>	<input type="checkbox"/>
4	TDS of Reinforced fiber glass Al foil tape shall be submitted with the offer.				<input type="checkbox"/>	<input type="checkbox"/>
5	The Reinforced Al foil shall comply to EN45545-HL3 R1 requirements as per below table.					
		<b>EN 45545</b>				
		<b>Details</b>	<b>HL3 - R1</b>			
	<b>Flammability Test</b>	ISO 5658-2, in kWm <sup>-2</sup>	CFE (Minimum) = 20		<input type="checkbox"/>	<input type="checkbox"/>
	<b>Heat Release Rate Test</b>	ISO 5660-1 @ kWm <sup>-2</sup> , in kWm <sup>-2</sup>	MARHE (Maximum) = 60		<input type="checkbox"/>	<input type="checkbox"/>
	<b>Smoke Test</b>	EN ISO 5659-2 @ 50 kWm <sup>-2</sup> , dimensionless	Ds(4) (Maximum) =150		<input type="checkbox"/>	<input type="checkbox"/>
		EN ISO 5659-2 @ 50 kWm <sup>-2</sup> , dimensionless	VOF4 (Maximum) =300		<input type="checkbox"/>	<input type="checkbox"/>
	<b>Toxicity Test</b>	EN ISO 5659-2 @50 kWm <sup>-2</sup> , dimensionless	CITg (Maximum) = 0.75		<input type="checkbox"/>	<input type="checkbox"/>

Sl. No.	Technical Delivery Conditions	COMPLIED	NOT COMPLIED
6	The fire safety test reports for the above requirements from accredited labs as per EN ISO/IEC 17025 shall be submitted before supplies and similar test reports of previous projects to submitted along with the offer.	<input type="checkbox"/>	<input type="checkbox"/>
7	Sample approval shall be obtained before bulk supplies.	<input type="checkbox"/>	<input type="checkbox"/>
8	The supplier shall submit compliance for the above points along with the technical offer..	<input type="checkbox"/>	<input type="checkbox"/>

-----  
Signature of the Bidder with Seal  
(Name, Designation & Address)