

Mechanical Test Results

Type/Description	Test Standard	Observation / Results
Ballistic Tests Carried Out ON 6,13 And 19mm Velstone In Accordance with Guidelines And to The Methods Laid Down In BS 5051: PART 1:1988 Method For Classification Of The Ballistic Capabilities Of Products	BS 5051: PART 1: 1988	Type One Passed GO & G1 Type two Passed G2 Passed S86 Type three Passed G2 Passed S86
Thermal Conductivity Of Polymer And Aluminium Trihydrate	NPL DA164	<u>Thermal Conductivity Result</u> Mean hot face temperature / ⁰ C 77.0 Mean cold face temperature / ⁰ C 62.9 Mean test temperature /⁰ C 70.0 Thermal Conductivity /(W/m.K) 0.683)
Specific Gravity	ASTM D792-91	160
Hardness	D785-89	89
Tensile Strength, PSI	ASTM D638-91	5060
Elongation %	ASTM D638-91	0.6
Modulus Of Elastic	ASTM D638-91	919,000
Abrasion Resist	ASTM C501-84	0.27
Boiling Water Resistance	NEMA LD3-3.05	No Effect
High Temperature Resistance	NEMA LD3-3.06	No Effect
Izod Impact, Ft-Lb/In	ASTM D256-90	0.31
Water Absorption, Weight %	ASTM D570-81	0.04
Ball Impact, Inch Drop	NEMA LD3-3.03	>120

<p>Test to assess the comparative durability of the surface finish</p> <p>1. Resistance to Surface Penetration</p> <p>2. Impact</p> <p>3. Wet Heat 55 C 70 C 85 C</p> <p>4. Dry Heat 120 C 140 C 160 C</p> <p>5. Condensation</p> <p>6. Water Ingress</p> <p>7. Flooding</p> <p>8. Large Ball Impact</p> <p>9. Ease Of Renovation</p>	<p>BS 3202 Part 2</p>	<p>5</p> <p>5</p> <p>3 2 2</p> <p>3 2 2</p> <p>No Visible Deterioration</p> <p>>0.8mm</p> <p>>0.8mm</p> <p>1</p> <p>OK</p>
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