

Composite ULD Skins

Description

MACRO-Lite is an engineered fiber reinforced sheet with superior impact resistance, durability, and flame resistance. It is designed as a drop-in replacement for sheet metal and traditional composite laminates and can be customized for most applications.

Features



Lightweight



Abrasion Resistant



Impact Resistant



Flame Resistant

Typical Mechanical Properties

	Weight (<i>lbs/ft²</i>)	Thickness (<i>in</i>)	1" Break Strength (<i>lbs</i>)	ASTM D3884 Taber Abrasion* (<i>mg loss per revolution</i>)	ASTM D3039 Min. Tensile Strength (<i>Mpa</i>)	ISO 12236 Puncture* (<i>kN</i>)
MACRO-Lite ML201-DF	.370	.057	2700	<.030	>320	9.00
MACRO-Lite ML235-DF	.275	.045	2350	<.005	>350	7.25
MACRO-Lite ML202-DF	.275	.042	2000	<.030	>300	5.00

*QBS to ML235/ML201/ML202

Specifications

Specification	Result
Flammability: 14CFR25.853d App F, Part 1 (a)(2)(iv)	ALL
Flammability: 14CFR25.853d App F, Part 1 (a)(1)(ii)	ALL
Flammability: 14CFR25 App F, Part III – Ceiling Orientation	ML201-DF / ML202-DF Only
Weathering: Exterior films pass 10+ year weathering in FL & AZ	ALL
Weathering: Exterior films pass accelerated weathering (Xenon exposure Quarz Boro 2500kJ)	ALL
UV & Humidity: ISO 12236 / ISO 4892-3 Cycle 1 (QBS, Puncture & Tensile)	PASS
Fungus Resistance: MIL-STD-810g, Method 508.6 (QBS)	PASS