PRODUCT LIST Structural core materials



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		Marine	Renewable Energy	Building & Construction	Rail	Automotive	Aerospace	Industrial	
AIREX° R82 Radar transparent with fire and high temperature performance (60 - 110 kg/m ³) (3.7 - 6.9 lb/ft ³)					••	•	•••	•	
AIREX [®] TegraCore [™] Lowest density with fire performant (50 kg/m ³) (3.3 lb/ft ³)	ce						•••		
AIREX° T10 Premium surface with high specific properties (100 – 110 kg/m ³) (6.2 – 6.9 lb/ft ³)		••••	••••	•••		••••		••••	
AIREX° T90 Economic and fire retardant (60 – 210 kg/m ³) (3.8 – 13.1 lb/ft ³)				•••	••••	••	•	••	
AIREX° T92 Structural and sustainable (60 – 320 kg/m ³) (3.8 – 20.0 lb/ft ³)		••	•••	•••		••		••	
AIREX [®] C70 High specific properties (60 – 130 kg/m ³) (3.7 – 8.1 lb/ft ³)		•••	•••	••		••	•	••	
AIREX® PXc/PXw Fiber-reinforced non-rotting board (245 – 420 kg/m ³) (15 – 26 lb/ft ³)		••••	•	••		••		••	
BALTEK[®] SB Select grade structural Balsa (109 – 285 kg/m ³) (6.8 – 17.8 lb/ft ³)		•••	•••	••	•••	•••	•	••	
BALTEK® SBC FSC plantation controlled structural Balsa (109 – 148 kg/m ³) (6.8 – 9.3 lb/ft ³)		•••	•••	••	•••	•••		••	
BALTEK® VBC Engineered structural Balsa (156 kg/m ³) (9.7 lb/ft ³)		••	•••	•••	•••	••	•	•••	
			••• =	best choice	•• =	= most suitat	ole •	= suitable	

	CHARACTERISTICS	APPLICATIONS	PROC	ESSING		oclave)		бu		
All of our products are sustainable, lightweight and offer low water absorption, sound and thermal insulation and positive flotation.		Contact moulding hand/spray)	/acuum infusion	Adhesive bonding	Pre-preg (vacuum, press, aut	Resin injection (RTM, VARTM)	Compression mold (SMC, GMT)	Thermoforming	Thermoplastic	
	 fulfills most stringent fire requirements operating temperature from -194 °C to +160 °C (-317 °F to +320 °F) remains ductile at cryogenic temperatures excellent dielectric properties (radar outstanding transparency) very low moisture absorption 	Aerospace: Interiors, doors, tanks, radomes, rotor blades Automotive & Rail: Front-ends, side skirts, roof panels, interiors Marine: Fire resistant interiors, radomes Defense: Naval superstructures, antennas, Industrial: High temp. tooling, x-ray tables	√	(√)	1	√	(√)		~	~
	 low total cost fabrication exceeds FAR 25.853 requirements: nearly zero smoke evolution, easily passes OSU heat release test processing temperature up to 180 °C (355 °F) very low moisture absorption excellent hot-wet performance available thickness from 1 mm+ 	Aerospace: Interiors, luggage bins, side walls, seat covers, galleys, trolleys Defense: Naval joiner work, radomes, antennas, ballistic spacers Marine: Fire retardant interiors, cladding Railway: Interiors, side skirts, roof panels Industrial: High temp. tooling, radomes	~	~	~	✓	(√)	~	~	~
	 very high compression and shear properties outstanding fatigue strength homogeneous cell structure easy to process with all types of resin and lamination processes high process temperature up to 150 °C available thickness from 1 mm+ 	Automotive: Structural and semi-structural parts of cars; sidewalls, floors, of trucks Renewable Energy: Blades (shear webs & shells), nacelles Marine: Hulls, decks, superstructures, bulk- heads, stringers, interiors Industrial: Covers, containers, sporting goods	~	~	~	✓	✓	~	✓	~
	 superior fire retardancy (FAR 25.853; EN 45545, EN 13501) outstanding fatigue strength excellent long term thermal stability up to 100 °C (212 °F) best thermal stability in process up to 150 °C (302 °F) good thermal insulation available thickness from 1 mm+ 	Aerospace: Interiors, galleys, trolleys Automotive & Rail: Floors, sidewalls, front ends, interiors, roofs, engine covers Marine: Decks, interiors, superstructures Industrial: Covers, containers, sporting goods Building & Construction: Roofs, claddings, domes, portable building	~	~	~	✓	(√)	✓	~	~
	 easy to process with all types of resin and lamination processes high process temperature up to 150 °C (302 °F) outstanding fatigue strength best-in-class resin uptake very high chemical stability available thickness from 1 mm+ 	Renewable Energy: Blades (shear webs & shells), nacelles Marine: Decks, hull sides, superstructures, bulkheads, transoms, interiors Industrial: Covers, containers, local reinforce- ments, x-ray tables, sporting goods Automotive: Truck body parts, floors	~	v	~	✓	(√)	✓	~	~
	 outstanding strength and stiffness to weight ratios good impact strength low resin absorption high fatigue resistance good fire performance (self-extinguishing) high sound and thermal insulation good styrene resistance 	Marine: Hulls, decks, bulkheads, interiors Automotive & Rail: Roof panels, interiors, floors, doors, partition walls, side skirts Renewable Eenergy: Rotor blades, nacelles, turbine generator housings Aerospace: Interiors, general aviation Industrial: Skis, snowboards, surfboards	~	v	~	(√)	✓		~	(√)
	 high shear and compression properties replacement for wood and plywood good fastener pull-out strength high heat resistance compatible with a wide range of resins and adhesives dimensionally stable high styrene resistance 	Marine: Transoms, bulkheads, stringers, engine beds, floors, interiors, tooling Automotive & Rail: Floors, sidewalls, roofs, engine covers, interior panels Industrial: Covers, tanks, containers, tooling and molds, local reinforcements	✓	~	✓	(~)	✓	(√)	√	(√)
	 outstanding strength and stiffness to weight ratios first-class, select grade lumber ecological product broadest range of available balsa densities worldwide certified for a range of applications by DNV, Germanischer Lloyd, Lloyd's Register, American Bureau of Shipping and Korean Register 	Marine: Hulls, decks, superstructures Automotive & Rail: Floors, roofs, doors Renewable Energy: Rotor blades (shear webs and shells), nacelles, spinners Industrial: Tanks, containers, sporting goods Aerospace: Floors, cargo pallets / containers Defense: Naval vessels, containers, shelters	~	~	v	~	v	✓		~
	 ecological product from controlled 3A Composites Core Materials plantations controlled time from harvesting to kiln-drying: Optimized for vacuum infusion processes full traceability and highest lumber quality due to strict process control from seedling to final product broadest range of available balsa densities worldwide 	Renewable Energy: Rotor blades (shear webs & shells), nacelles, spinners Marine: Hulls, decks, bulkheads, interiors Automotive & Rail: Floors, roofs, side skirts, front-ends, doors, interiors, covers Industrial: Tanks, containers, sporting goods Aerospace: Floors, cargo pallets / containers	✓	~	✓	~	✓	✓		~
	 optimized mechanical properties excellent fatigue resistance improved density distribution homogeneous structure, easy to machine excellent damping pro perties ecological product from controlled 3A Composites Core Materials plantations 	Marine: Hulls, bulkheads, superstructures Automotive & Rail: Floors, roofs, side skirts Renewable Energy: Shear webs Building & Construction: Composite bridge Industrial: Sporting goods, ski & Snowboard Aerospace: Floors, general aviation Defense: Blast protection	~	~	~	✓	~	✓		~

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