IAR Library: 07.40.00 Ka 2019 <u>Translucent Building Systems</u> <u>07.40.00</u> <u>2019</u>

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PRODUCT	TYPE OF PRODUCT	
INFORMATION		High Performance Translucent Building Systems
	COMPANY NAME	Kalwall
	PRODUCT/COLLECTION NAME	Kalwall Panel + System Technologies
	DESCRIPTION	Building panels, either curved or flat, that extract and convert free
		energy from the sun to heat, cool, naturally light, and drastically
		"electrify" buildings.
		, ,
		Provides predictable, beautiful, glare-free daylight that blocks harmful
		UV-A and UV-B rays while transmitting the full spectrum of visible light
		for perfect color rendition within interiors.
		Used for Wall Systems, Curtain Walls, Window Systems, Window
		Beplacements Skylights Clearspan Skylights/Skyroofs
		Walkways/Canopies, and Complete Structures.
		Although Kalwall blocks LIV-A and LIV-B wavelengths, it allows for
		photosynthesis to occur in plants, promoting plant growth
		photosynthesis to bood in pidno, promoting pidnt growth.
		Will not melt, can handle extreme environments with ease
		shatterproof blocks line of sight for privacy, resistant to
		shallerproof, blocks line of sight for privacy, resistant to
		granu/valualism, strong and lightweight, increases numan comfort,
	MATERIAL CONTENT	and sen-cleaning.
MATERIAL	MATERIAL CONTENT	Formed by permanently bonding two specially formulated translucent
FEEDSTOCK		Fiberglass Reinforced Polymer (FRP) Faces to a Grid Core constructed
		of interlocking aluminum or thermally-broken composite I-beams.
	RECYCLED CONTENT %	Aluminum
	RAPIDLY RENEWABLE CONTENT	N/A
	%	
	HARMFUL ADDITIVES	Fiberglass
	HARMFUL EMISSIONS	Some emissions from fiberglass
	EMISSION STRENGTH OVER	None
	TIME	
	11012	
	TREATMENTS	None
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MANUFACTURING	TREATMENTS MANUFACTURING PROCESS HARMFUL EMISSIONS LOCATION OF MANUF. PLANT TESTS/CODES	None Provide sandwich panels of flat fiberglass reinforced translucent face sheets laminated to a grid core of mechanically interlocking I-beams. The adhesive bonding line shall be straight, cover the entire width of the I-beam and have a neat, sharp edge. Standard panels shall deflect no more than 1.9" at 30 PSF in 10' 0" span without a supporting frame by ASTM E 72. Standard panels shall withstand 1200° F fire for minimum one hour without collapse or exterior flaming. Thermally broken panels: Minimum Condensation Resistance Factor of 80 by AAMA 1503 measured on the bond line. None Manchester, NH -Class A Burning Brand Test (ASTM E-108) -UL Listings for Class A Roof Systems and FRP Faces -ETA-07/0244 Wall Systems -UFC 4-010-01 DoD Anti-Terrorism Force Protection (ATFO) -FM Explosion Venting Walls Standard 4881 and 4471 -Hurricane-Besistant Systems
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	TREATMENTS TREATMENTS MANUFACTURING PROCESS HARMFUL EMISSIONS LOCATION OF MANUF. PLANT TESTS/CODES 3 RD PARTY CERTIFICATION INSTALLATION PROCEDURE	None Provide sandwich panels of flat fiberglass reinforced translucent face sheets laminated to a grid core of mechanically interlocking I-beams. The adhesive bonding line shall be straight, cover the entire width of the I-beam and have a neat, sharp edge. Standard panels shall deflect no more than 1.9" at 30 PSF in 10' 0" span without a supporting frame by ASTM E 72. Standard panels shall withstand 1200° F fire for minimum one hour without collapse or exterior flaming. Thermally broken panels: Minimum Condensation Resistance Factor of 80 by AAMA 1503 measured on the bond line. None Manchester, NH -Class A Burning Brand Test (ASTM E-108) -UL Listings for Class A Roof Systems and FRP Faces -ETA-07/0244 Wall Systems -UFC 4-010-01 DoD Anti-Terrorism Force Protection (ATFO) -FM Explosion Venting Walls Standard 4440 -FM Wall and Roof Systems Standard 4881 and 4471 -Hurricane-Resistant Systems -NFRC Certified Products Listing -NFRC Certified Products Listing -NFRC Certified Products Listing -NFRC C, FM Approved, UL listings, GreenSpec Listed, Cabot
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		Anchor component parts securely in place by permanent mechanical
		attachment system. Accommodate thermal and mechanical
		movements. Set perimeter framing in a full bed of sealant compound.
		or with joint fillers or gaskets to provide weather-tight construction.
		Install joint sealants at perimeter joints and within the panel system in accordance with manufacturer's installation instructions.
	INSTALLATION ADHESIVES	Heat and pressure resin type adhesive engineered for structural
		sandwich panel use, with minimum 25-years field use. Adhesive shall
		pass testing requirements specified by the International Code Council
		"Acceptance Criteria for Sandwich Panel Adhesives".
		Minimum tensile strength of 750 PSI when the panel assembly is
		tested by ASTM C 297 after two exposures to six cycles each of the
		aging conditions prescribed by ASTM D 1037.
		Minimum shear strength of the papel adhesive by ASTM D 1002 after
		exposure to four separate conditions:
		50% Relative Humidity at 68° F: 540 PSI
		182° F: 100 PSI
		Accelerated Aging by ASTM D 1037 at room temperature: 800 PSI
		Accelerated Aging by ASTM D 1037 at 182° F: 250 PSI
	UNIT COST	Varies
	LIFE CYCLE ANALYSIS	Reduces maintenance and energy costs. Low initial financial cost.
	EXTRACTION	
	END OF SERVICE LIFE	Recyclable, kalwall claims 0 landfill manufacturing
MISC. PROPERTIES	QUALITIES/PROPERTIES OF	Fire Performance: can withstand a 1200°F flame for one hour with no
	PRODUCT	flame penetration.
		environments with ease
		Blast Protection: shatterproof meeting Anti-Terrorism Force
		Protection (ATEP)
		Safety + Security: blocks line of sight for visual privacy and is
		resistant to vandalism/graffiti.
	MISC. COMMENTS	Deliver panel system, components and materials in manufacturer's
		standard protective packaging.
	CONTRIBUTION TO LEED POINTS	Sustainable Sites: Heat Island Effect
		Energy & Atmosphere: Minimum Energy Performance, Optimize
		Energy Performance, Renewable Energy Protection
		Views
COMPANY PROFILE	GREEN PHILOSOPHY	Kalwall, a producer of sustainable fenestration systems since long
		before the "green" philosophy became popular, is a world leader in
		daylighting technology, energy conservation, and participation in
		LEED®-certified buildings.
	CONTACT	Call 800-258-9777 (N. America)
		FAX 603-627-7905
		και ωαι ι
		1111 Candia Road
		PO Box 237
		Manchester, NH 03105
		Phone: 603-627-3861
		Email: info@kalwall.com
MAINTENANCE	AFTER INSTALLATION	The cost savings of Kalwall go far beyond installation costs and energy
		savings. Kalwall is virtually maintenance-free. No more scraping or
		painting window sashes or trim. Unlike glass, natural rainfall is all
		that's needed to keep the surface clean and streak-free. Kalwall is also
		snatterproof and highly valual-resistant. The exclusive glass vell
		removed.
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