

Rigid tubular aluminum bracket, Matthews N923SP Satin Black polyurethane finish

Aluminum spacer, Matthews N923SP Satin Black polyurethane finish

Minumum 4" safety around lettering

Aluminum frame, Matthews N923SP Satin Black polyurethane finish

Trespa Meteon panel, Nordic Black

1/2" acrylic dimensional lettering in cast acrylic
Opaque Bright White 7508 finish

REAR / SECONDARY SIGN DATA

	ALLOWED	PROPOSED
QUANTITY	1/tenant	1/tenant
AREA	24 sq. ft.	24 sq. ft.
HEIGHT aff (min.)	8'-0"	8'-0"

NOTE: One (1) LED ground fixture will be installed per sign

Material Property Datasheet

TRESPA® METEON®

Decorative high-pressure compact laminates according to EN 438-6:2005 with thicknesses of 6 mm (± ¼ in) or greater for outdoor applications. Sheets consisting of layers of wood-based fibers (paper and/or wood) impregnated with thermosetting resins and surface layer(s) on one or both sides, having decorative colors or designs. A transparent topcoat is added to the surface layer(s) and cured by Trespa's unique in-house technology Electron Beam Curing (EBC), to enhance weather and light protecting properties. These components are bonded together with simultaneous application of heat (≥ 150° C / ≥ 302° F) and high specific pressure (> 7 MPa) to obtain a homogeneous non-porous material with increased density and integral decorative surface. They are available in the Standard grade (EDS; not available in all worldwide areas) and in the Fire-Retardant grade (EDF).

Properties	Test method	Property or attribute	Unit	Result [Ⓐ] [Ⓑ]					
				Grade: EDS (Meteon®)	Grade: EDF (Meteon® FR)				
				Standard: EN 438-6	Standard: EN 438-6				
				Color/decor: All [Ⓒ]	Color/decor: All [Ⓒ]				
Surface quality									
Surface quality	EN 438-2 : 4	Spots, dirt, similar surface defects	mm²/m²	≤ 2					
			in²/ft²	≤ 0.0003					
		Fibers, hairs & scratches	mm/m²	≤ 20					
			in/ft²	≤ 0.073					
Dimensional tolerances									
Dimensional tolerances	EN 438-2 : 5	Thickness	mm	6.0 ≤ t < 8.0: +/- 0.40					
				8.0 ≤ t < 12.0: +/- 0.50					
				12.0 ≤ t < 16.0: +/- 0.60					
			in	0.2362 ≤ t < 0.3150: +/- 0.0157					
				0.3150 ≤ t < 0.4724 : +/- 0.0197					
				0.4724 ≤ t < 0.6299: +/- 0.0236					
	EN 438-2 : 9	Flatness	mm/m	≤ 2					
			in/ft	≤ 0.024					
	EN 438-2 : 6	Length & width	mm	+ 5 / - 0					
			in	+ 0.1968 / - 0					
	EN 438-2 : 7	Straightness of edges	mm/m	≤ 1					
			in/ft	≤ 0.012					
	Trespa Standard	Squareness	mm	2550 x 1860 = max. difference between diagonals (x-y) = 4					
				3050 x 1530 = max. difference between diagonals (x-y) = 4					
				3650 x 1860 = max. difference between diagonals (x-y) = 5					
				4270 x 2130 = max. difference between diagonals (x-y) = 6					
				100.39 x 73.23 = max. difference between diagonals (x-y) = 0.1575					
				120.08 x 60.24 = max. difference between diagonals (x-y) = 0.1575					
		Curved Elements [Ⓓ]	Radius inside/ outside corner	mm	n.a.	970 / 980 +/- 5%			
						1290/1300 +/- 5%			
				in		38.19 / 38.58 +/- 5%			
						50.79 / 51.18 +/- 5%			
				Max. height		mm	n.a.	r 970/980: 1300 {-0/+5}	
								r 1290/1300: 1300 {-0/+5}	
		in	r 38.19 / 38.58: 51.18 {-0/+5}						
			r 50.79 / 51.18: 51.18 {-0/+5}						
		Max. angle (°)		n.a.	90 +/- 0.5°				
		Physical properties							
		Resistance to impact by large diameter ball	EN 438-2 : 21	Indentation diameter - δ ≤ t mm with drop height 1.8 m	mm	≤ 10			
Impact resistance		ASTM D5420-04	Mean failure height	ft	1.0466				
	Mean failure energy		J	11.3					
Dimensional stability at elevated temperature	EN 438-2 : 17	Cumulative dimensional change	Longitudinal %	≤ 0.25					
			Transversal %	≤ 0.25					
Resistance to wet conditions	EN 438-2 : 15	Mass increase	%	≤ 3					
		Appearance	Rating	≥ 4					
	ASTM D2247-02	Water resistance	Rating	No change					
	ASTM D2842-06	Water absorption	%	0.5					
Modulus of elasticity	EN ISO 178	Stress	MPa	≥ 9000					
	ASTM D638-08	Stress	psi	Curved Elements: ≥ 8000					
Flexural strength	EN ISO 178	Stress	MPa	≥ 1305000					
	ASTM D790-07	Stress	psi	≥ 120					
Tensile strength	EN ISO 527-2	Stress	MPa	≥ 17500					
	ASTM D638-08	Stress	psi	≥ 70					
Density	EN ISO 1183	Density	g/cm³	≥ 10150					
	ASTM D792-08	Density	g/cm³	≥ 1.35					
Resistance to fixings	ISO 13894-1	Pull out strength	N	6 mm: ≥ 2000					
				8 mm: ≥ 3000					
				≥ 10 mm: ≥ 4000					
				0.2362 in: ≥ 2000					
				0.3150 in: ≥ 3000					
				≥ 0.3937 in : ≥ 4000					

Ⓐ Due to conversion from metric values, the US values provided are approximate.
Ⓑ All data are related to the products mentioned in the Trespa® Meteon® standard delivery program.
Ⓒ Availability limited – contact your local Trespa representative for more details.

Please visit www.trespa.info for the most up to date version of this document.



Material Property Datasheet

TRESPA® METEON®

Properties	Test method	Property or attribute	Unit	Result [Ⓐ] [Ⓑ]	
				Grade: EDS (Meteon®)	Grade: EDF (Meteon® FR)
				Standard: EN 438-6	Standard: EN 438-6
				Color/decor: All [Ⓒ]	Color/decor: All [Ⓒ]
Other properties					
Thermal resistance / conductivity	EN 12524	Thermal resistance / conductivity	W/mK	0.3	
Weather resistance properties					
Resistance to climatic shock	EN 438-2 : 19	Flexural strength index (Ds)	Index	≥ 0.95	
		Flexural modulus index (Dm)	Index	≥ 0.95	
		Appearance	Rating	≥ 4	
Resistance to artificial weathering (incl. Light fastness) <i>West European cycle</i>	EN 438-2 : 29	Contrast	Grey scale ISO 105 A02	4.5 [Ⓔ]	
			Grey scale ISO 105 A03	4.5	
		Appearance	Rating	≥ 4	
Resistance to artificial weathering (incl. Light fastness) [Ⓔ] <i>Florida cycle 3000hrs</i>	Trespa Standard	Contrast	Grey scale ISO 105 A02	4.5 [Ⓔ]	
			Grey scale ISO 105 A03	4.5	
		Appearance	Rating	≥ 4	
Resistance to SO ₂	DIN 50018	Contrast	Grey scale ISO 105 A02	4.5 [Ⓔ]	
			Grey scale ISO 105 A03	4.5	
		Appearance	Rating	≥ 4	
Fire performance					
Europe					
Reaction to Fire	EN 438-7	Classification t ≥ 6 mm / 0.2362 in	Euroclass	D-s2, d0	B-s2, d0
		Classification t ≥ 8 mm / 0.3150 in (Metal Frame)	Euroclass		B-s1, d0
Reaction to Fire (Germany)	DIN 4102-1	Classification	Class	B2	B1
Reaction to Fire (France)	NF P 92-501	Classification	Class	M3	M1
North America					
Material Surface Burning Characteristics [Ⓕ]	ASTM E84/UL 723	Classification	Class	n.a.	A
		Flame Spread Index	FSI	n.a.	0-25
		Smoke Developed Index	SDI	n.a.	0-450
Asia Pacific					
Reaction to Fire (China)	GB 8624	Classification	Class	D-s2, d0	B-s1, d0, t1

Ⓐ Due to conversion from metric values, the US values provided are approximate.
Ⓑ All data are related to the products mentioned in the Trespa® Meteon® standard delivery program.
Ⓒ Not valid for following colors: A04.0.1/A10.1.8/A20.2.3/A17.3.5/A12.3.7.
For other applications/colors such as project colors, please contact your local Trespa representative.
Ⓓ For more information on Delta E values, please contact the Technical Service Department of Trespa North America at 1-800-487-3772.
Ⓔ Laboratory test results are not intended to represent hazards that may be present under actual fire conditions. For multi-story applications, where local or national building codes may require full-scale fire testing in accordance with NFPA 285(U.S.) or Can/ULC-S134 (Canada), please visit our website www.trespa.info or contact the Technical Service Department of Trespa North America at 1-800-487-3772 for installation information.

Please note:
Trespa® Meteon® is engineered for vertical exterior wall coverings such as façade cladding, balcony panelling as well as horizontal exterior ceiling applications (Trespa® Meteon® Curved Elements are only suitable for vertical exterior wall coverings). For other applications please contact your local Trespa representative.
Storage, machining, mounting and cleaning instructions are provided by the manufacturer.



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HSLED13A





Bullet shape die cast aluminum flood with spotlighting for over 40 feet away. 13 Watt LED High Performance Light Engine.

Color: Bronze

Weight: 3.5 lbs

Project:	Type:																
Prepared By:	Date:																
<table><tr><td>Driver Info</td><td>LED Info</td></tr><tr><td>Type: Constant Current</td><td>Watts: 13W</td></tr><tr><td>120V: 0.12A</td><td>Color Temp: 5100K</td></tr><tr><td>208V: 0.09A</td><td>Color Accuracy: 67 CRI</td></tr><tr><td>240V: 0.08A</td><td>L70 Lifespan: 100000</td></tr><tr><td>277V: 0.07A</td><td>Lumens: 1373</td></tr><tr><td>Input Watts: 14W</td><td>Efficacy: 96 LPW</td></tr><tr><td>Efficiency: 91%</td><td></td></tr></table>		Driver Info	LED Info	Type: Constant Current	Watts: 13W	120V: 0.12A	Color Temp: 5100K	208V: 0.09A	Color Accuracy: 67 CRI	240V: 0.08A	L70 Lifespan: 100000	277V: 0.07A	Lumens: 1373	Input Watts: 14W	Efficacy: 96 LPW	Efficiency: 91%	
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Technical Specifications

- Listings
- UL Listing:

Suitable for wet locations. Suitable for ground mounting.
- IESNA LM-79 & IESNA LM-80 Testing:

RAB LED luminaires have been tested by an independent laboratory in accordance with IESNA LM-79 and 80, and have received the Department of Energy "Lighting Facts" label
- LED Characteristics
- Lifespan:

100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations
- LEDs:

13 Watt high output, long-life LED
- Lumen Maintenance:

100,000 hours Life Based on LM-80 Tests
- Color Consistency:

7-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color
- Color Stability:

LED color temperature is warrantied to shift no more than 200K in CCT over a 5 year period
- Color Uniformity:

RAB's range of CCT (Correlated Color Temperature) follows the guidelines of the American National Standard for (SSL) Products, ANSI C78.377-2017.

- Optical
- Spotlight Distribution:

Beam Angle of 11° and Field Angle of 24° enables the HSLED to produce a very narrow spot distribution
- NEMA Type:

NEMA Beam Spread of 2H x 2V
- Electrical
- Driver:

Constant Current, Class 2, 100-277V, 50-60Hz, 100-240VAC 0.3-0.15A, 277VAC 0.15A.
- Surge Protection:

4kV
- Construction
- Ambient Temperature:

SuitableFor use in 40°C (104°F) ambient temperatures
- Cold Weather Starting:

Minimum starting temperature is -40°C (-40°F)
- Thermal Management:

Cast aluminum Thermal Management system for optimal heat sinking. The HSLED is designed for cool operation, most efficient output and maximum LED life by minimizing LED junction temperature.
- Housing:

Precision die-cast aluminum housing, hood and mounting arm

- Gaskets:

High Temperature Silicone
- Finish:

Formulated for high-durability and long lasting color
- Green Technology:

Mercury and UV-free. RoHS compliant components. Polyester powder coat finish formulated without the use of VOCs or toxic heavy metals.
- Other
- Warranty:

RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish.

- Patents:

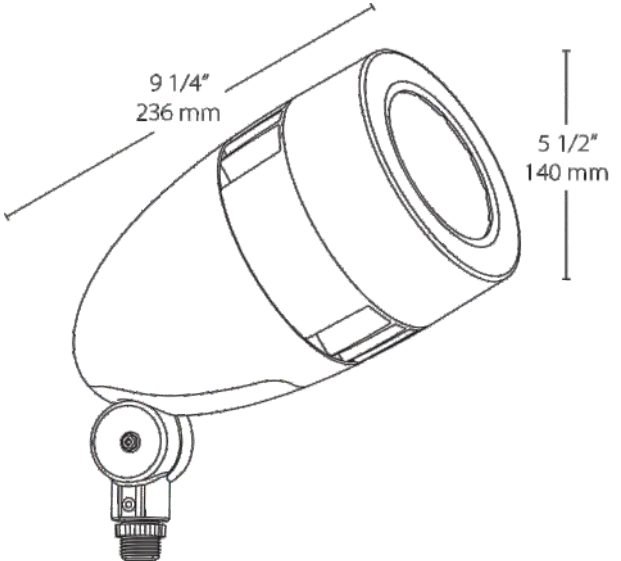
The design of the HSLED is protected by Taiwan Patent 01510965 and patents pending in US, Canada, China, and Mexico
- Buy American Act Compliance:

RAB values USA manufacturing! Upon request, RAB may be able to manufacture this product to be compliant with the Buy American Act (BAA). Please contact customer service to request a quote for the product to be made BAA compliant.

HSLED13A



Dimensions



- Features
- Spot lighting for over 40 feet away

Perfect for flag lighting

NEMA type - 2H x 2V

Available in four colors

100,000-hour life based on LM-80 tests

5- year LED warranty