

ABH

With a double-wall, hollow-core shape, Absorb H's horizontal wings allow for more efficient absorption of sound. The direct-indirect luminaire holds a patent for its unique design, which combines high performance optics and the most advanced acoustic materials.

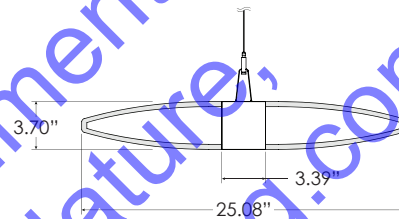


Performance

	OUTPUT	DISTRIBUTION	DELIVERED		
			LUMEN OUTPUT	INPUT WATTS	EFFICACY
INDIRECT	LH (high)	Symmetric Wide	656 lm/ft	9 W/ft	69 lm/W
		Symmetric	884 lm/ft	9.6 W/ft	93 lm/W
		Asymmetric	646 lm/ft	9.6 W/ft	68 lm/W
DIRECT	LH (high)	HE Tech™	903 lm/ft	9.7 W/ft	95 lm/W

Based on static white 3500K. For the complete photometric data of this fixture go to page 3.

Dimensions

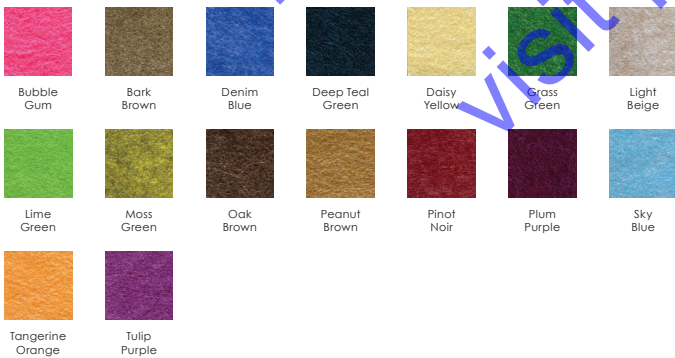


Felt options

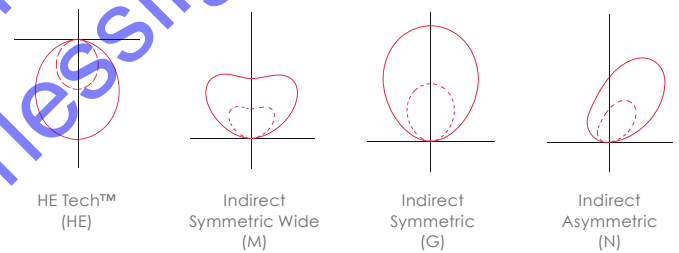
Standard Colors



Signature Colors



Mounting options



Project name

Type

Date

Quantities



Need help?
Don't see what you need?
We know that having so many options can be overwhelming. Please reach out to our factory for any specific request or questions you have.

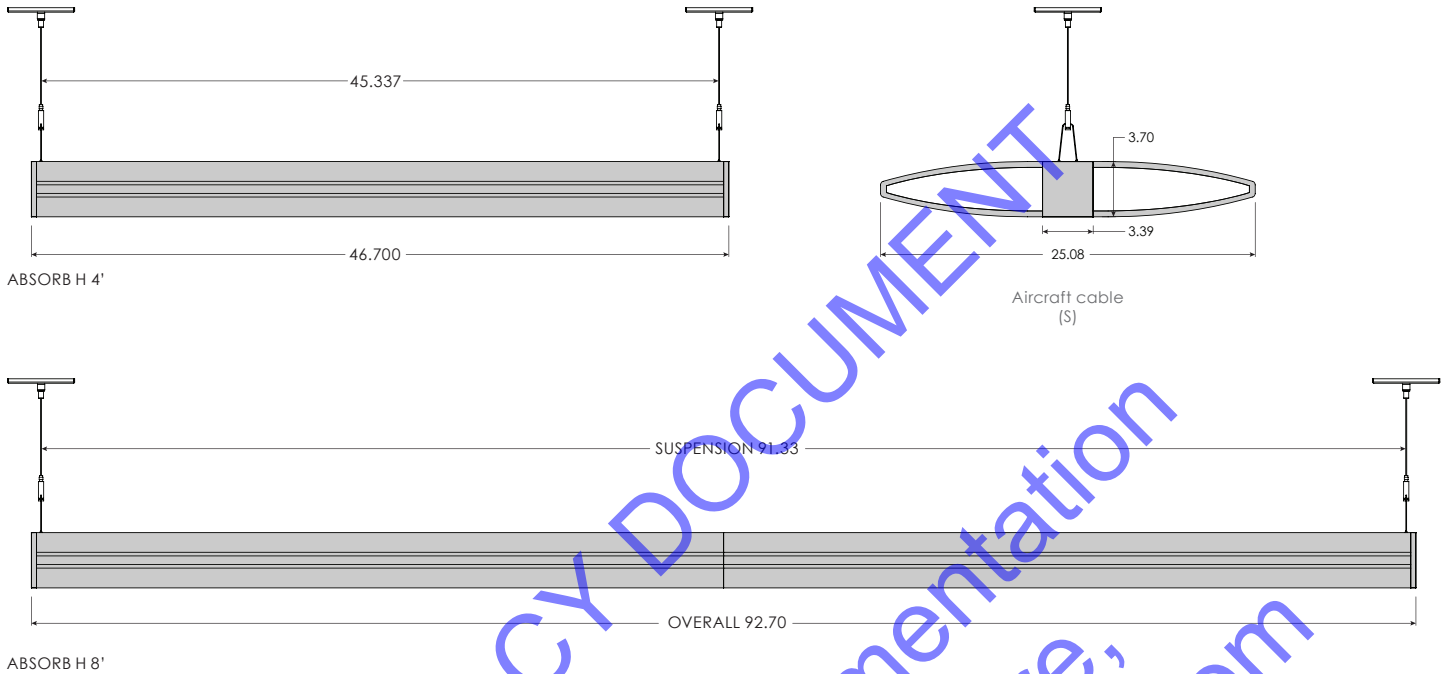
Our Design Assist team
(designassist@alights.com)
is here to make the process move smoothly.

ABH						
SERIES	FIXTURE TYPE	LENGTH	OUTPUT	CCT	INDIRECT DISTRIBUTION	INDIRECT OPTICS
ABH	1 Indirect 2 Indirect/Direct 3 Direct N No light	– Nominal Length ¹	ILS Indirect LED Standard ILH Indirect LED High IC_ Indirect LED Custom ¹ + DLS Direct LED Standard DLH Direct LED High DC_ Direct LED Custom ¹	27 2700k 30 3000k 35 3500k 40 4000k DW Dim-to-warm ¹ TW Tunable White ^{1,2} RW RGBW (full color + 3000k White) ^{2,3}	M Symmetric wide G Symmetric N Asymmetric	D Rigid Diffuse Dust Cover
¹ If multiple fixture types are required in same pattern contact Design-Assist.		¹ Specify feet in increments of 2' (i.e. 2, 4, 6 ...)		¹ Contact Design-Assist for custom tuning. ² Standard CCT range is 27-50K. Contact design assist for custom range. ³ Photometric data pending for Tunable White and RGBW. ⁴ RGBW is UL pending and only available in DMX dimming. Contact Design-Assist for white CCTs other than 3000k.		

DIRECT OPTICS	LED CRI	VOLTAGE	MOUNTING	FINISH	ACOUSTIC FINISH ¹
HE HE Tech™	– CRI 80+ CRI 90+ CRI ¹	U 120-277V 3 347V	S Aircraft Cable ¹ Black power cord provided for black and titanium finish and wire power cord provided for all other fixture finishes, unless otherwise specified. ¹ Standard 10' fold adjustable cable, specify length to nearest inch, if over 10'.	T Titanium W White B Black O_ Other ¹	Standard Colors ABF AWF BBF BOF BTF BYF CBF NBF OBf PGF REF SGF TGF ZFF Signature Colors BGF BKF DBF DTF DYF GGF LBF LGF MGF OAF PBF PNF PPF SBF TOF TPF
¹ Standard offering is 80+ CRI.		¹ Not available with LEDcode or EM.		¹ Specify RAL or other custom color. ¹ See acoustic color chart for reference. Signature colors require longer lead time.	

CIRCUITING		DIMMING		EMERGENCY		SENSORS	
1	Single circuit	D	Standard 0-10V dimming ¹	EC	Emergency - circuited	OF_	Occupancy Sensor - Fixture
2	Multi-circuit ¹	D2	Phase dimming ²	E_	Emergency - battery ¹	PF_	Photocell / Daylight Sensor - Fixture
		D3	DMX 0.1% dim-to-dark			OPF_	Occupancy / Daylight Sensor - Fixture
		D4	DALI dim-to-off				
		NAIR	nLight@AIR (dim-to-off)				
		NWIR	nLight@Wired (dim-to-off)				
¹ Separate uplight and downlight circuits.		¹ 1% Dimming standard, unless otherwise specified.		¹ Factory-installed battery pack. Specify desired quantity of batteries. Not available on fixtures <4' length. Not available for 347V. See technical data for more information.		² Reference: ERP-PHB driver for compatible dimmers.	
						Specify quantity of sensors per fixture. Sensor will be matched to dimming input.	

Mounting



Project name

Type

Date

Quantities

Light distribution

DISTRIBUTION

Indirect Symmetric Wide
Indirect Symmetric
Indirect Asymmetric
Direct (He Tech™)

OUTPUT

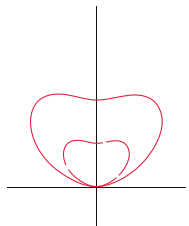
LH: High output - 9.5 W/ft
LS: Standard output - 5 W/ft
C: Custom tuned output - Contact Design Assist

Photometric data

INDIRECT SYMMETRIC WIDE
ILH - 3500K - DUST COVER

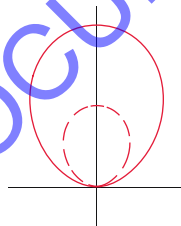
Lumens: 656 lm/ft
Input watts: 9.5 W/ft
Efficacy: 69 lm/W

ILH ———
ILS - - - - -

INDIRECT SYMMETRIC
ILH - 3500K - DUST COVER

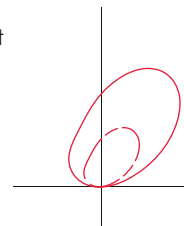
Lumens: 884 lm/ft
Input watts: 9.5 W/ft
Efficacy: 93 lm/W

ILH ———
ILS - - - - -

INDIRECT ASYMMETRIC
ILH - 3500K - DUST COVER

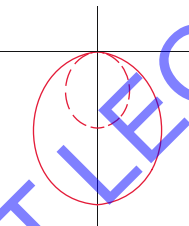
Lumens: 646 lm/ft
Input watts: 9.5 W/ft
Efficacy: 68 lm/W

ILH ———
ILS - - - - -

DIRECT SYMMETRIC
DLH - 3500K - HE TECH™

Lumens: 903 lm/ft
Input watts: 9.5 W/ft
Efficacy: 95 lm/W

DLH ———
DLS - - - - -



Light loss factors (LLF) - Direct data

OUTPUT	CCT	LLF RATIO		DIRECT EFFICACY	
				HE TECH	
		CRI 80	CRI 90	CRI 80	CRI 90
LH (high)	4000K	1.02	0.84	97 lm/W	80 lm/W
	3500K	1	0.83	95 lm/W	79 lm/W
	3000K	0.97	0.81	92 lm/W	77 lm/W
	2700K	0.94	0.79	89 lm/W	75 lm/W
LS (standard)	4000K	1.02	0.84	92 lm/W	76 lm/W
	3500K	1	0.83	90 lm/W	75 lm/W
	3000K	0.97	0.81	87 lm/W	73 lm/W
	2700K	0.94	0.79	85 lm/W	71 lm/W

OUTPUT	CCT	LLF RATIO		DIRECT LUMEN OUTPUT	
				HE TECH	
		CRI 80	CRI 90	CRI 80	CRI 90
LH (high)	4000K	1.02	0.84	921 lm/ft	758 lm/ft
	3500K	1	0.83	903 lm/ft	749 lm/ft
	3000K	0.97	0.81	875 lm/ft	731 lm/ft
	2700K	0.94	0.79	848 lm/ft	713 lm/ft
LS (standard)	4000K	1.02	0.84	459 lm/ft	378 lm/ft
	3500K	1	0.83	450 lm/ft	374 lm/ft
	3000K	0.97	0.81	437 lm/ft	365 lm/ft
	2700K	0.94	0.79	423 lm/ft	356 lm/ft

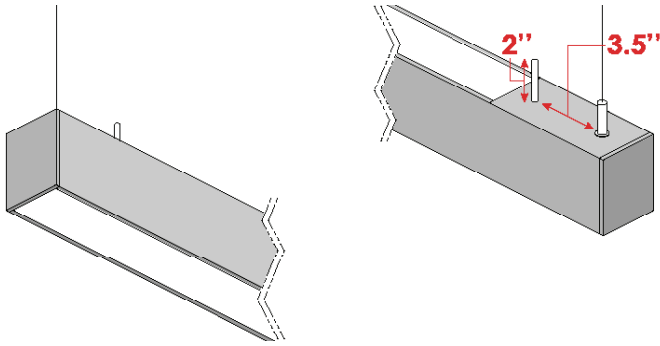
Light loss factors (LLF) - Indirect data

OUTPUT	CCT	LLF RATIO		INDIRECT EFFICACY					
				SYMMETRIC WIDE		SYMMETRIC		ASYMMETRIC	
		CRI 80	CRI 90	CRI 80	CRI 90	CRI 80	CRI 90	CRI 80	CRI 90
LH (high)	4000K	1.02	0.84	70 lm/W	58 lm/W	95 lm/W	78 lm/W	69 lm/W	57 lm/W
	3500K	1	0.83	69 lm/W	57 lm/W	93 lm/W	77 lm/W	68 lm/W	56 lm/W
	3000K	0.97	0.81	67 lm/W	56 lm/W	90 lm/W	75 lm/W	66 lm/W	55 lm/W
	2700K	0.94	0.79	65 lm/W	55 lm/W	87 lm/W	73 lm/W	64 lm/W	54 lm/W
LS (standard)	4000K	1.02	0.84	70 lm/W	58 lm/W	91 lm/W	75 lm/W	67 lm/W	55 lm/W
	3500K	1	0.83	69 lm/W	57 lm/W	89 lm/W	74 lm/W	66 lm/W	55 lm/W
	3000K	0.97	0.81	67 lm/W	56 lm/W	86 lm/W	72 lm/W	64 lm/W	53 lm/W
	2700K	0.94	0.79	65 lm/W	55 lm/W	84 lm/W	70 lm/W	62 lm/W	52 lm/W

OUTPUT	CCT	LLF RATIO		INDIRECT LUMEN OUTPUT					
				SYMMETRIC WIDE		SYMMETRIC		ASYMMETRIC	
		CRI 80	CRI 90	CRI 80	CRI 90	CRI 80	CRI 90	CRI 80	CRI 90
LH (high)	4000K	1.02	0.84	669 lm/ft	551 lm/ft	901 lm/ft	742 lm/ft	659 lm/ft	543 lm/ft
	3500K	1	0.83	656 lm/ft	544 lm/ft	884 lm/ft	733 lm/ft	646 lm/ft	536 lm/ft
	3000K	0.97	0.81	636 lm/ft	531 lm/ft	857 lm/ft	716 lm/ft	627 lm/ft	523 lm/ft
	2700K	0.94	0.79	616 lm/ft	518 lm/ft	830 lm/ft	698 lm/ft	607 lm/ft	510 lm/ft
LS (standard)	4000K	1.02	0.84	352 lm/ft	290 lm/ft	454 lm/ft	374 lm/ft	337 lm/ft	277 lm/ft
	3500K	1	0.83	345 lm/ft	286 lm/ft	445 lm/ft	369 lm/ft	330 lm/ft	274 lm/ft
	3000K	0.97	0.81	335 lm/ft	279 lm/ft	432 lm/ft	360 lm/ft	320 lm/ft	267 lm/ft
	2700K	0.94	0.79	324 lm/ft	273 lm/ft	418 lm/ft	352 lm/ft	310 lm/ft	261 lm/ft

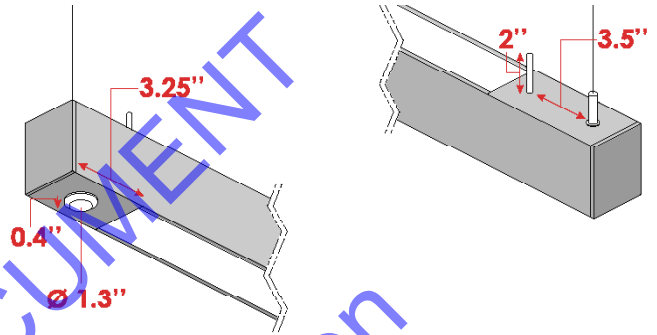
NLight dimensions

AIR : r10



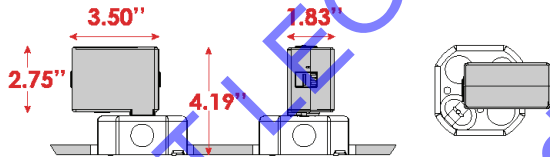
*Fixture mounted sensors and filler panel for nLight AIR only.

AIR : res7



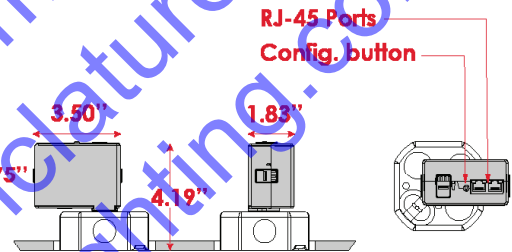
*Fixture mounted sensors and filler panel for nLight AIR only.

AIR : rPP20



*Mounted on standard 4" octagonal j-box. Fits on any j-box with 5/8" knockouts

WIRED : nPP16



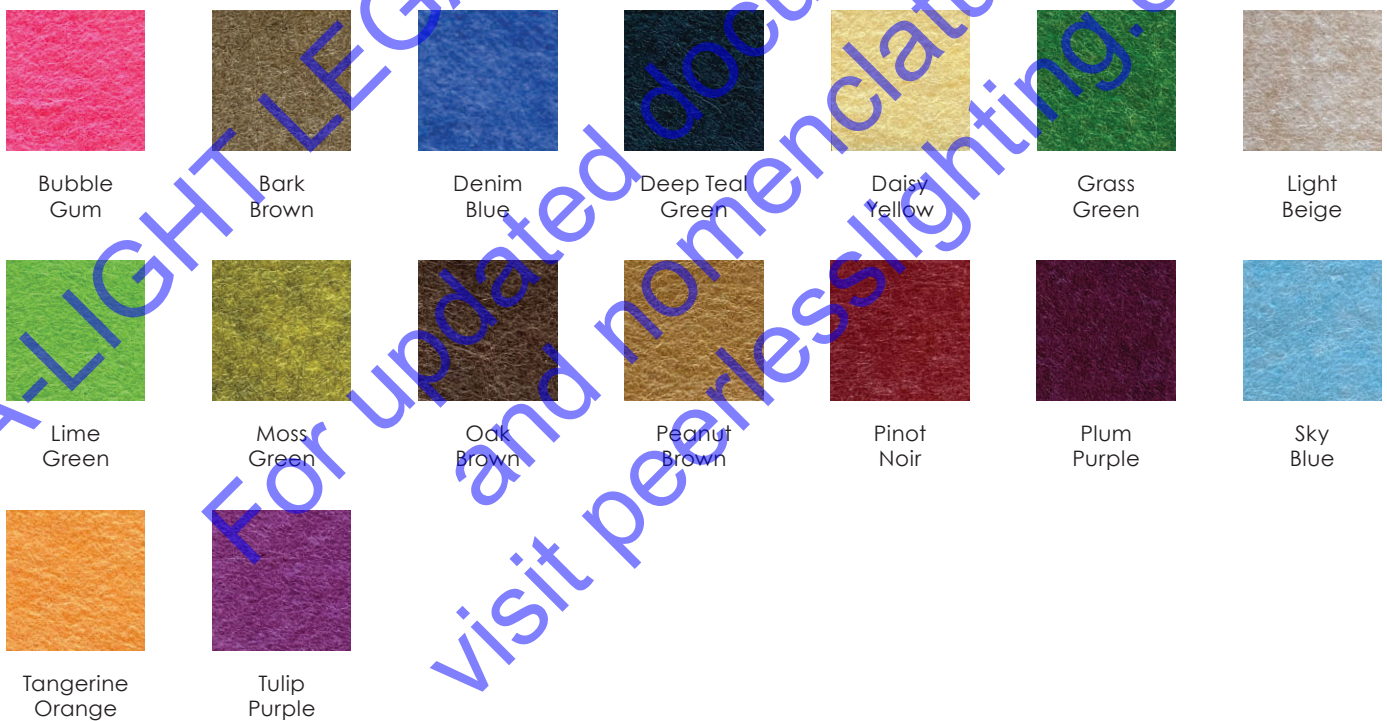
*Mounted on standard 4" octagonal j-box. Fits on any j-box with 5/8" knockouts

Acoustic color chart

Standard colors



Signature colors



Color chart for reference only. Due to the dye process, colors may vary from batch to batch, please consult Design Assist for details.

Project name Type Date Quantities

LINEAR DIMENSIONS

Elements - 4', 8', and 12' nominal length individual fixtures that can be joined to create continuous row lengths.

Custom - Contact [Design Assist](#) for modifications to product not detailed within this specification sheet.

OPTICS

The high-efficiency extruded diffuse acrylic lens technology, patented HE Tech™, features an integrated opaque white reflector. It delivers superior lumen output with optimal uniform lens surface luminance for direct distribution.

Our Dust Cover is a rigid, partially diffused extruded lens optimized for indirect LED performance and delivers 92% transmittance.

LED LIGHT SOURCE

Custom manufactured linear board array uses high performance Nichia® LED in combination with a performance driven heat sink technology. Tested in accordance with LM79 and LM-80; L70>60,000hr; operated at reduced output for high efficacy and lumen maintenance. 3000K, 3500K, and 4000K with 80+ CRI standards; other color temperatures and 90+ CRI available upon request, contact factory. LED color variation maintained at a 3-step MacAdam ellipse (SDCM 3x). LEDs are available in Standard and High outputs. Refer to photometry for delivered lumens.

LED DIMMING DRIVER

Factory tuned constant current electronic 0-10V control dimming driver is standard. Specification grade dimming down to 1%. Driver life of 50,000 hr with ambient operating temperature range of -30°C to 50°C, maximum case temperature of 75°C. Electrical specifications at maximum driver load: PF >0.9, THD <20% >85% Efficiency.

EMERGENCY

This luminaire is provided with a factory-installed LED emergency lighting battery pack for both normal and emergency operation, 120-277v only. This fixture integrated unit contains a long life Ni-Cad recyclable battery, 24-hour charger, and converter circuit. Test switch and charge indicator provided. Test button to be remotely located within 3 feet of the luminaire, by others in accordance with local code. Emergency mode provides constant power to a nominal 12W LED load for a period of 90 minutes, delivering 1200 lumens of unwavering illumination throughout the full 90 minute emergency duration. Unless otherwise specified, the emergency battery pack will illuminate one 4 feet end in the direct portion of the fixture. Emergency circuiting provided as a separate circuit from normal power circuit according to NEC requirements, specify circuit length and location.

CONTROLS

Low-profile integral occupancy and daylight sensors are available to deliver high performance control in an architecturally pleasing package.

Integrated nLight® for system networking wired and wireless:

NLIGHT® AIR WIRELESS

The integrated API smart sensor is part of each luminaire in the nLight® AIR network, which can be grouped to control multiple luminaires. The granularity of control with the digital PIR occupancy detection and daylight sensing makes a great solution for any application. Optionally you can order nLight® AIR less sensors for compatibility with an nLight Air wireless system. The rIO, rES7, rMSOD, and rCMS models are available for integration.

CONTROLS AND SYSTEM NETWORKING OPTIONS

For wired networking via Cat-5e, choose an nLight® wired module. The nIO EZ PH, nIO EZDL CCT, nES7 and nCM are available for integration.

Other manufacturer controls may be available for product integration, contact factory.

MOUNTING

Suspension with aircraft cables. Aircraft cable set includes 48" standard length 1/16" stainless steel adjustable aircraft cables with secure micro grippers to field set suspension length, comes factory installed in the fixture. 4-1/2" x 4-1/2" square white canopies. Cord strain also included. Power cord options available for aircraft cable. Black power cord provided for black and titanium finish, white power cord provided for all other fixture finishes unless otherwise specified.

Specify if other suspension length is required. Canopies provided as required for quantity of power feed and non-power feed locations (crossbar included for powerfeed only). Specify if other shape, size, or color is required.

ACOUSTICS

The carefully studied hollow core design and the large surface area contribute to lowering the reverberation time in a set environment by absorbing sound frequencies (ideal for human voice range 250 Hz to 2000 Hz). Material has inherent NRC of 0.75 (lab tests pending). As results may vary, it is recommended to consult sound professionals for optimal spacing, positioning and quantity of acoustic material for your environment. Due to the dye process, colors may vary from batch to batch. Signature colors require longer lead time.

FINISH

Electrostatically applied powder coat finish. Standard finish options include titanium, white, and black. Other colors and custom finish options available, specify RAL# or contact factory regarding custom finish requirements.

LISTING

Tested in accordance with UL/CSA 1598, NEC, ANSI/NFPA 70. For the USA and Canada. Dry locations only.

Innovative patented design. Absorb H has been granted a U.S. patent for its innovative design. The unique double-wall hollow-core shape of the wings allows Absorb H luminaire to efficiently absorb sound.

The Absorb H is assembled in the U.S.A. and complies with the Buy America(n) Act (BAA), Build America, Buy America (BABA) government procurement requirements under FAR, DFARS, and DOT.

WARRANTY

Limited defect-free manufactured equipment warranty provided under normal use and proper storage for five (5) year. LED products (LED boards and drivers) will be covered for five (5) years. Please refer to the full terms and conditions on our website: www.alights.com/downloads/warranty/