

SAS170

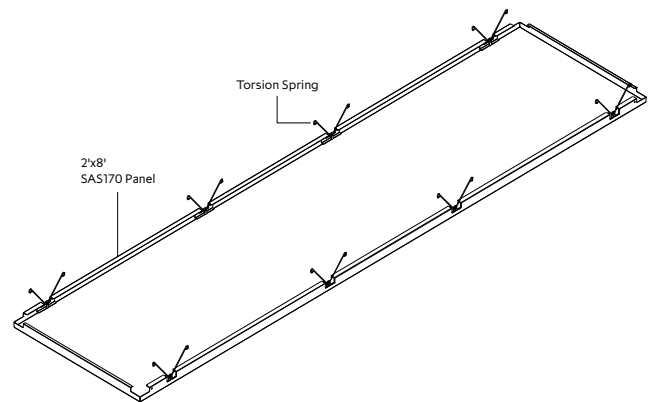
SYSTEM DATASHEET



SAS170 Torsion Spring Ceiling Panels - Lower Ceiling: Dye Sublimated Woodtones (Maple) 24" W x 96" L . Upper Ceiling: RAL PPC 9010 (Pure White) 48"W x 48"L

SYSTEM FEATURES

- Fully downward accessible torsion spring panels with concealed grid
- Interior non-seismic application only, installed on SAS 15/16" Tee Grid
- Standard and custom size panels*
- Adaptable for varied layout options, including wall to wall, clouds, sloped, and layered configurations
- Standard and custom perforation options, including ultra micro perforation and parametrically designed patterns
- Notable acoustical performance, see page 7 for more info
- Full integration with third party lighting, diffusers, sprinklers, speakers, etc.
- Matching perimeter trim options for full and field-cut panels
- Class A fire rating - steel & alum material options



*Please ask your sales rep for more information



CONTACT US
WWW.SASINT.US
FOR CUSTOMIZATIONS
AND PURCHASING



WELL



LEED
USGBC



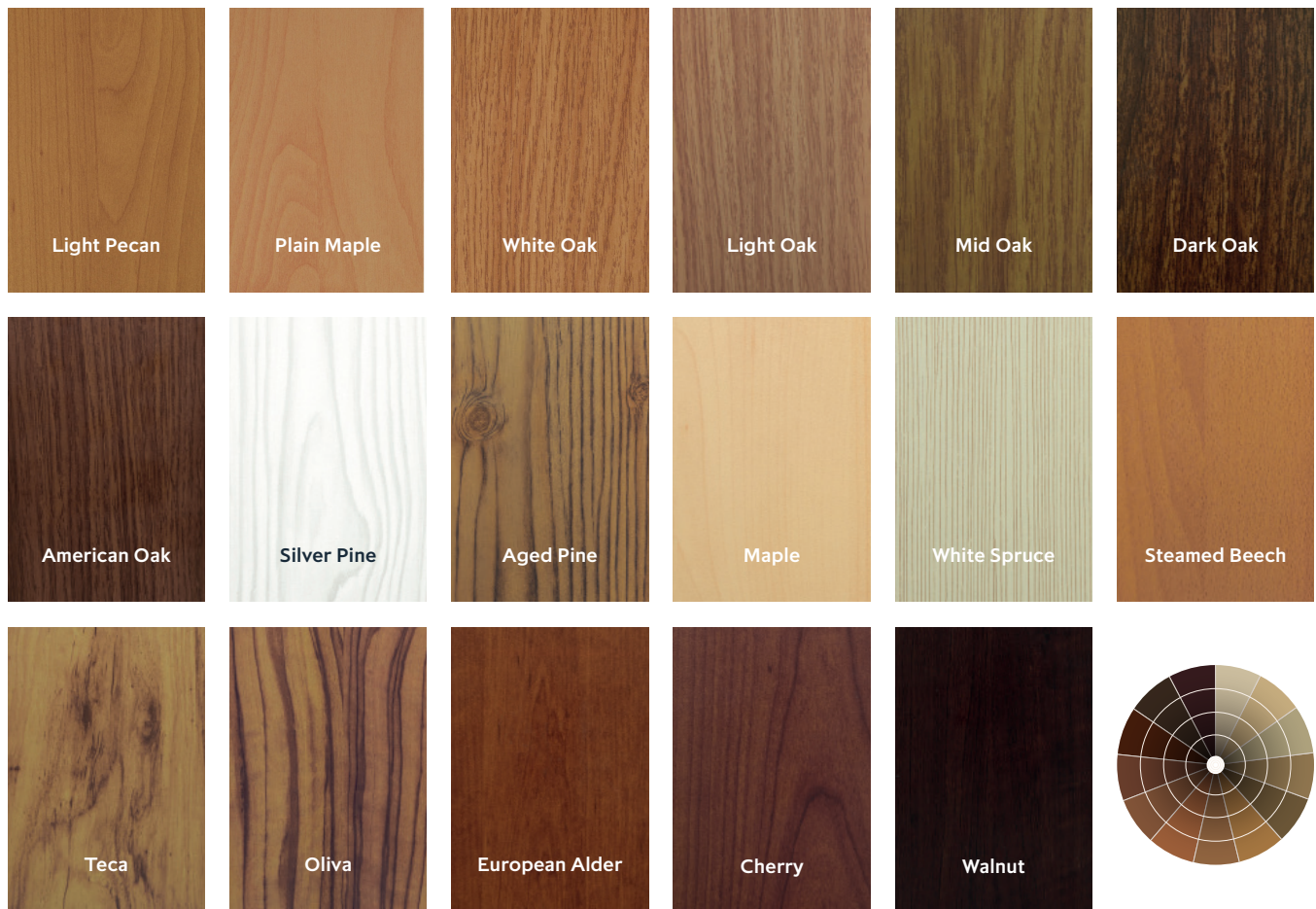
BREEAM



SKA
Rating

WoodTones

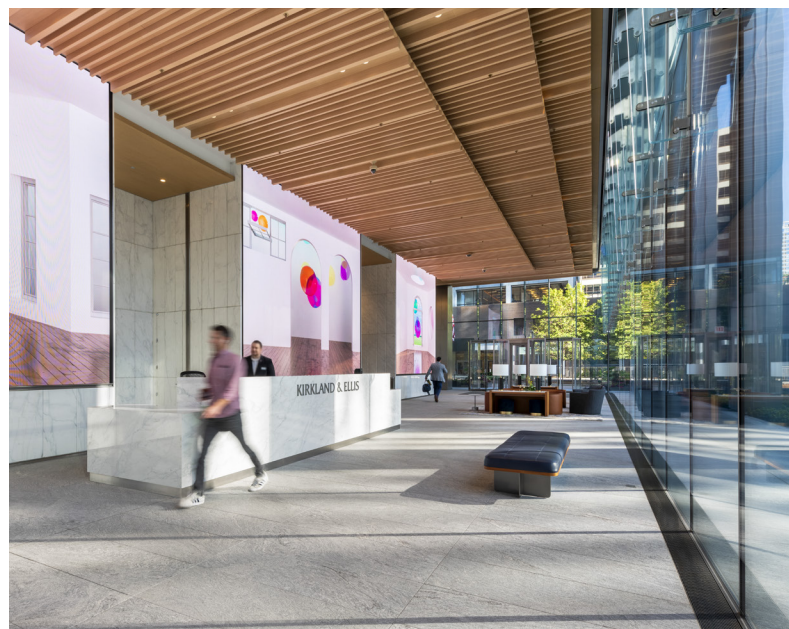
POPULAR DYE SUBLIMATED WOOD FINISHES



BIOPHILIC & IEQ

SAS wood finishes seamlessly blend the tranquility of nature into interior spaces, nurturing a connection with the outdoors that uplifts occupant well-being.

For more options contact your sales rep.



Anodic Finishes

POPULAR FINISHES

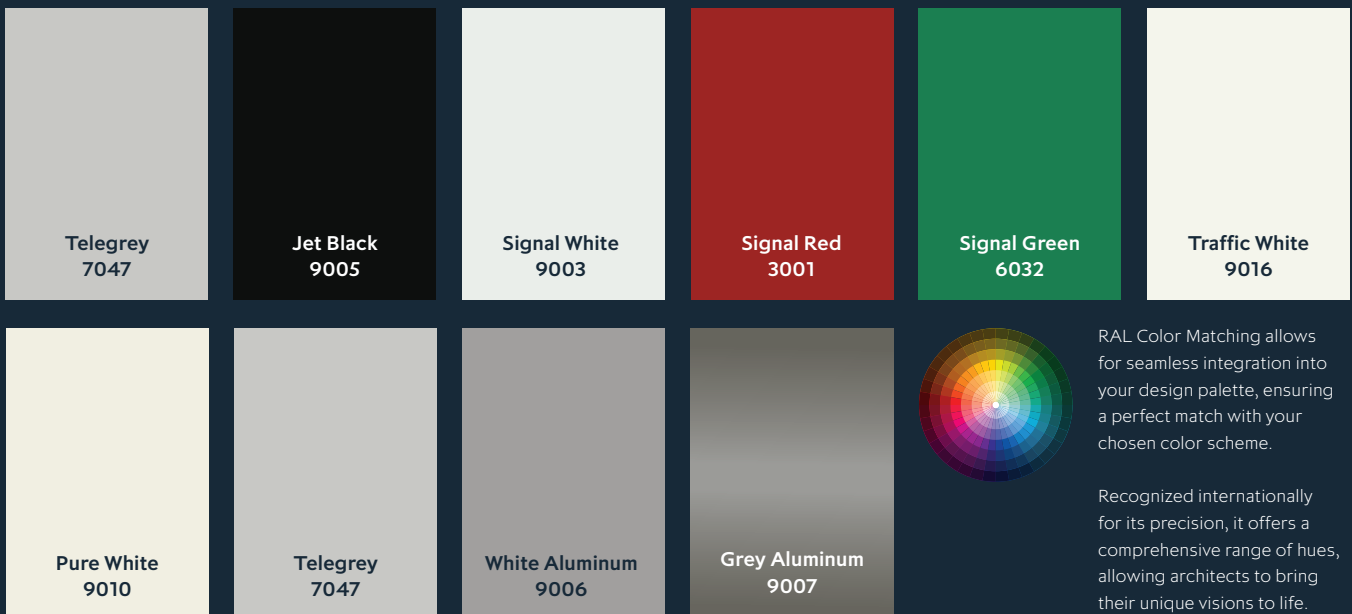
The Anodic collection offers metallic finishes, emulating anodized aluminum look.



FOR MORE OPTIONS PLEASE CONTACT YOUR SALES REP.

RAL/ PPC Finishes

RAL / PPC FINISHES



RAL Color Matching allows for seamless integration into your design palette, ensuring a perfect match with your chosen color scheme.

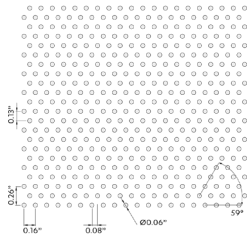
Recognized internationally for its precision, it offers a comprehensive range of hues, allowing architects to bring their unique visions to life.

IEQ: OUR LIGHTER RAL PAINTED FINISHES WITH HIGH LIGHT REFLECTANCE AMPLIFY NATURAL LIGHTING, REDUCING ENERGY USE WHILE BOOSTING MOOD AND PRODUCTIVITY.

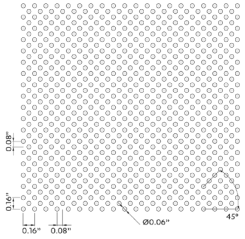
Perforations

POPULAR PATTERNS SHOWN

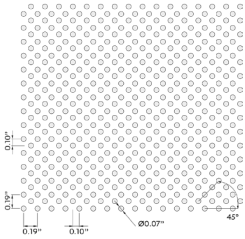
Other standard and custom patterns are available



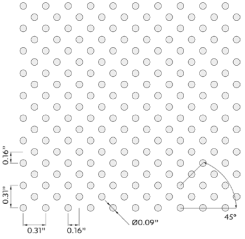
D1513



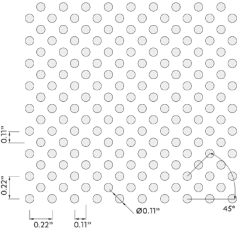
D1522



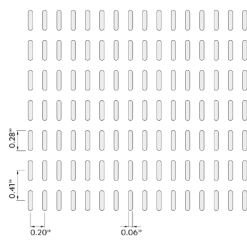
D1821



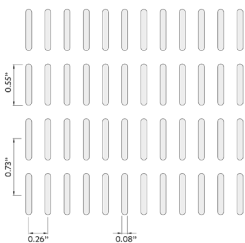
D2414



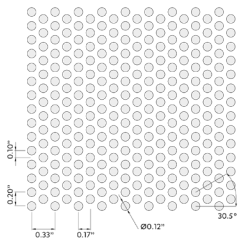
D3022



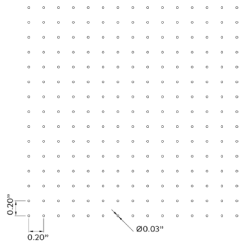
OB19



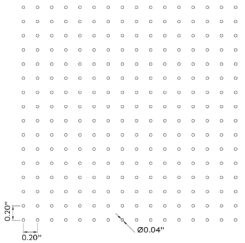
OB23



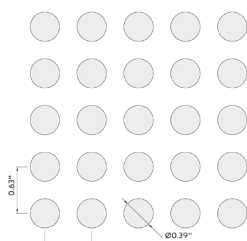
D3136



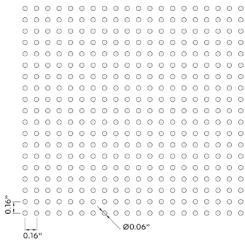
S0702 Ultramicro



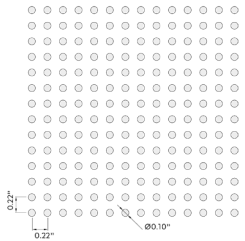
S1003 Ultramicro



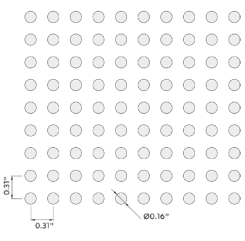
S1030



S1612



S2516



S3920

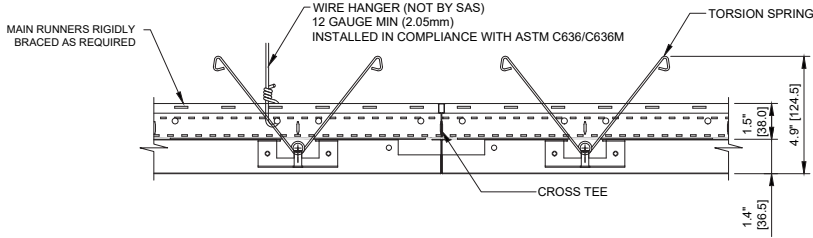
Perforation Codes:
D1513
D = Diagonal S Square
15 = Diameter
05 = Open Area



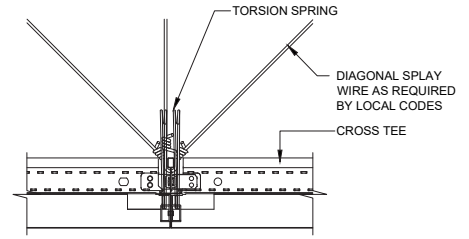
PLEASE VISIT SAS.US WEBSITE FOR MORE STANDARD FINISHES.
 SAS USA PROVIDES PARAMETRIC PERFORATION DESIGNS. PLEASE CONTACT YOUR SALES REP FOR ALL CUSTOM PERFORATION INQUIRIES.



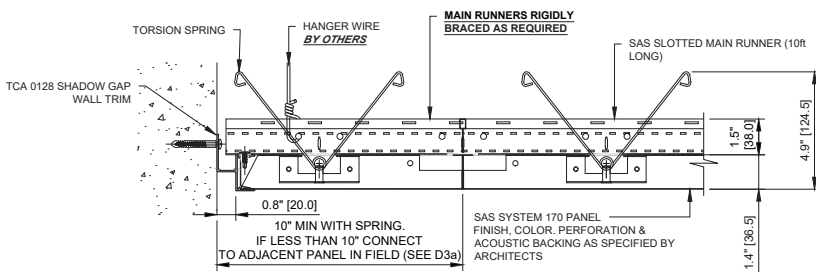
SAS170 System Details



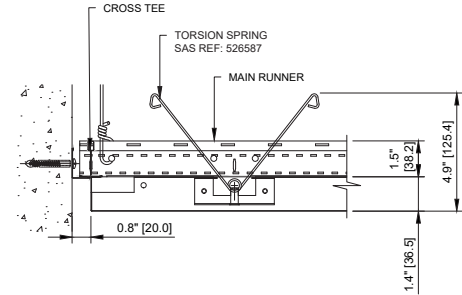
1. PANEL JOINT DETAIL @ MAIN RUNNER



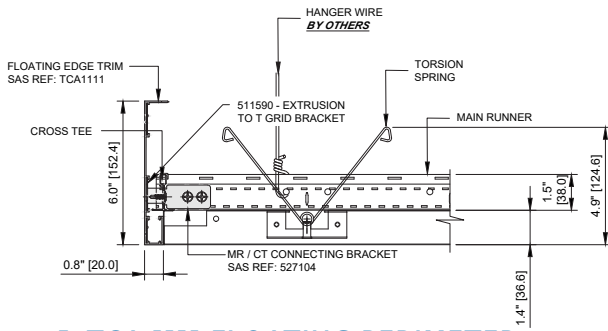
2. PANEL JOINT DETAIL @ CROSS TEE



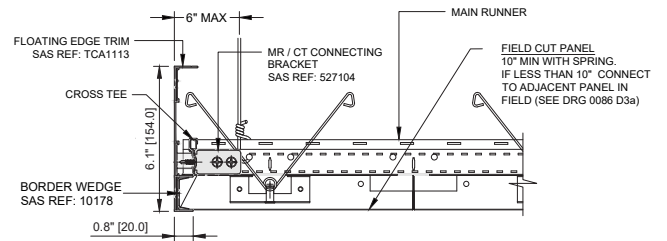
3. PERIMETER WALL DETAIL
CUT PANEL @ MAIN RUNNER



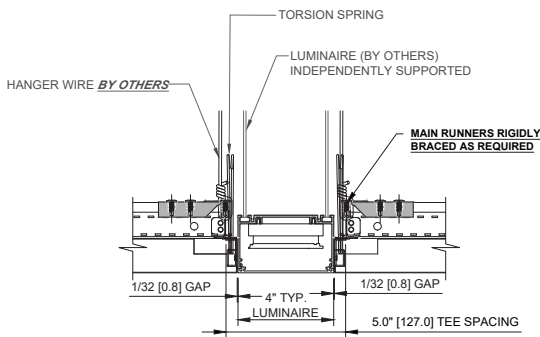
4. PERIMETER WALL DETAIL
FULL PANEL @ MAIN RUNNER



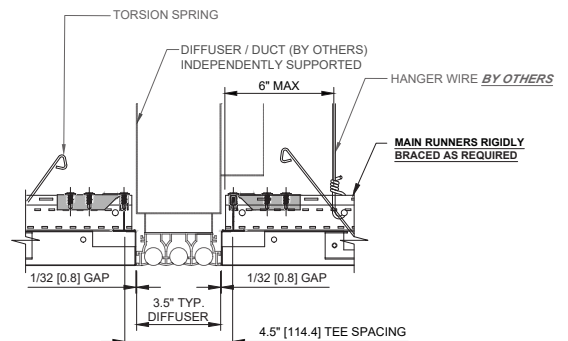
5. TCA 1111 FLOATING PERIMETER
FULL PANEL @ MAIN RUNNER



6. TCA 1113 FLOATING PERIMETER
CUT PANEL @ MAIN RUNNER



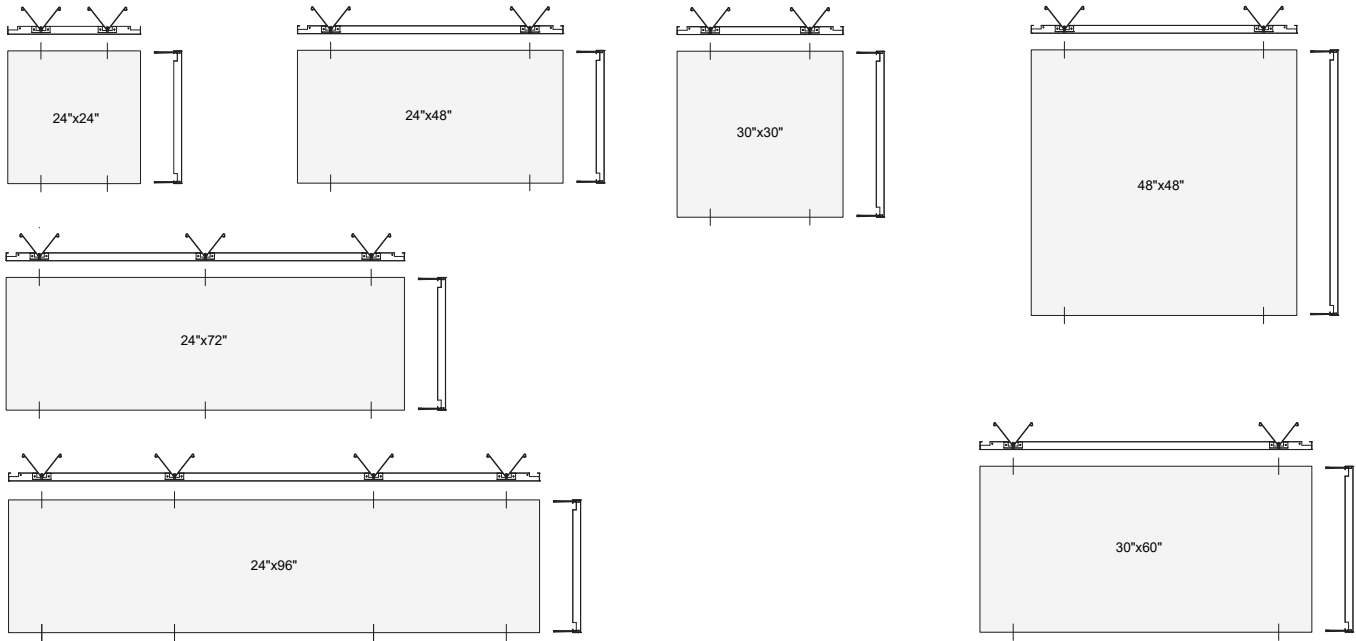
7. TYPICAL LINEAR LIGHTING
INTEGRATION



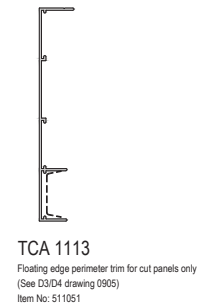
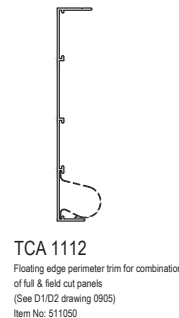
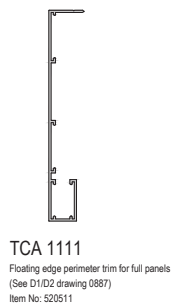
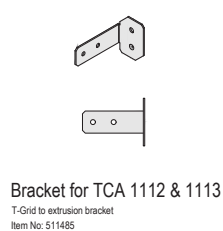
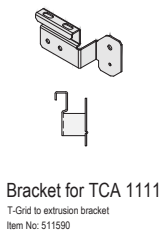
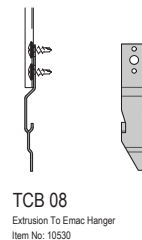
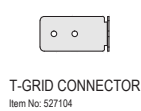
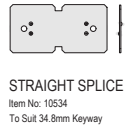
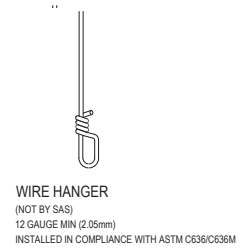
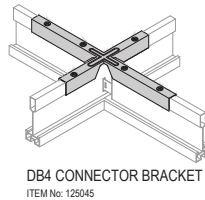
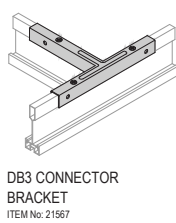
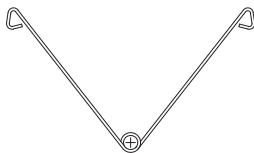
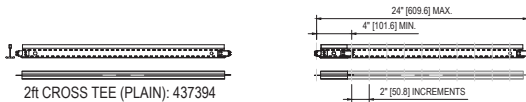
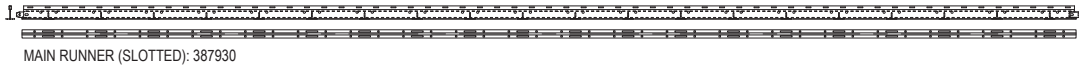
8. TYPICAL LINEAR DIFFUSER
INTEGRATION

STANDARD PANEL SIZES

Available in Steel & Aluminum (Torsion Springs Supplied Loose)



SYSTEM COMPONENTS



TECHNICAL PERFORMANCE

Reaction to Fire

**ASTM E84/UL273 &
CAN/ULC S102:2018**

Class A (Plain and perforated tiles with acoustic backing)
Flame spread 10, Smoke development 5 (Plain and perforated tiles with polyester powder coated finish)
Flame spread 15, Smoke development 10 (Perforated tiles with acoustic backing)

Acoustics

Note SAS170 can accept an acoustic inlay up to a maximum of 16mm thick as standard. Thicker pads are available, please contact technical for further information.

PERFORATION	INLAY	ABSORPTION			ATTENUATION		
		α_{60}	NRC	CLASS	$D_{n,c,w}$	$D_{n,f,w}$	R_w
Plain	None	–	–	–	43dB	–	–
Ultramicro (S1003, S0702)	Fleece	0.65	0.65	C	18dB	–	–
	16mm 80kg/m3 Pad	0.90	0.90	A	33dB	–	9dB
S1511	Fleece	0.80	0.80	B	–	–	–
	16mm 80kg/m3 Pad	0.90	0.85	A	–	–	–
D1522 / S1820	Fleece	0.80	0.80	B	–	15dB	–
	16mm 80kg/m3 Pad	1.00	1.00	A	27dB	–	–
	16mm 80kg/m3 Pad + Backing Plate	0.65	0.70	C	41dB	–	23dB

Light Reflectance

Up to 86.07%
(for RAL 9016 plain tiles, further information is available upon request)

Warranty

25 years

System Weight

1.425 lbs/SF
Steel 24"x24" panels plus 4 TS Bracket and 4 Torsion Springs

0.66 lbs/SF
Alum 24"x24" panels plus 4 TS Bracket and 4 Torsion Springs

MATERIAL HEALTH

VOCs

<0.5 $\mu\text{g}/\text{m}^3$ (tested in accordance with Indoor Comfort Gold and California Department of public health standards)

Formaldehyde Class

E1 in accordance with BS EN 13964:2014

REACH / LBC Red List

Product contains no substances on the authorisation, restriction or candidate list found on the current REACH SYHC or LBC Red List to 0.1% or 100ppm

Cradle to Cradle Material Health Certification

Yes (PPC finish up to 39% perforation and 16mm acoustic pad)

SUSTAINABILITY

Environmental Product Declaration

Product Specific Type III Environmental Product Declaration to EN 15804:2012+a1 2013

Embodied Carbon

20.0 - 22.4kg/ CO_2/m^2 of steel tiles including sub-grid and bracket (figures based on plain or perforated steel tiles with and without acoustic backing)

Recycled Content

SAS Horizon Steel - Recycled content = 23% Post consumer & 77% Pre consumer
SAS Horizon Alum - Recycled content = 44% Post consumer & 56% Pre consumer

PLEASE ASK YOUR SALES REP FOR MORE INFORMATION