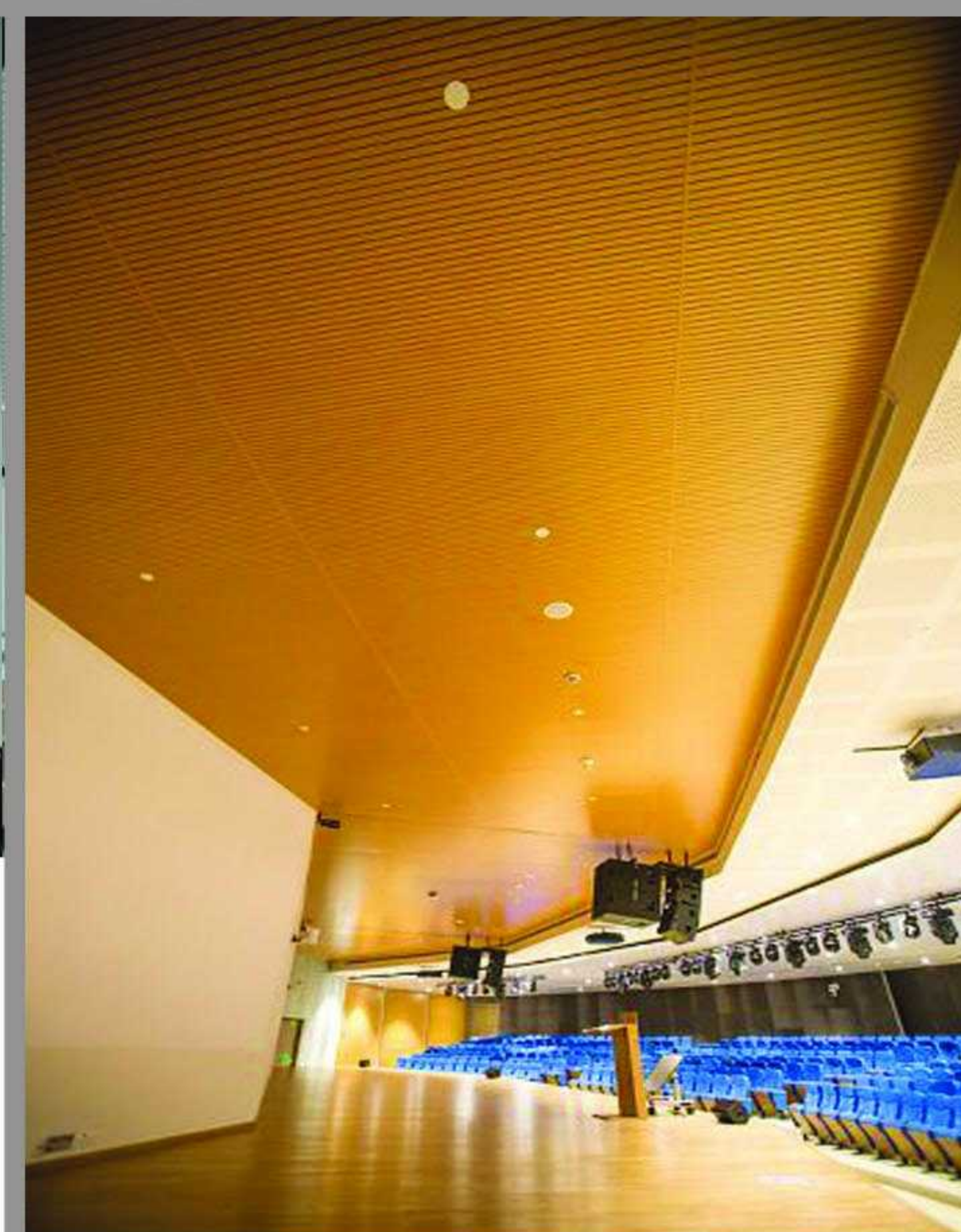
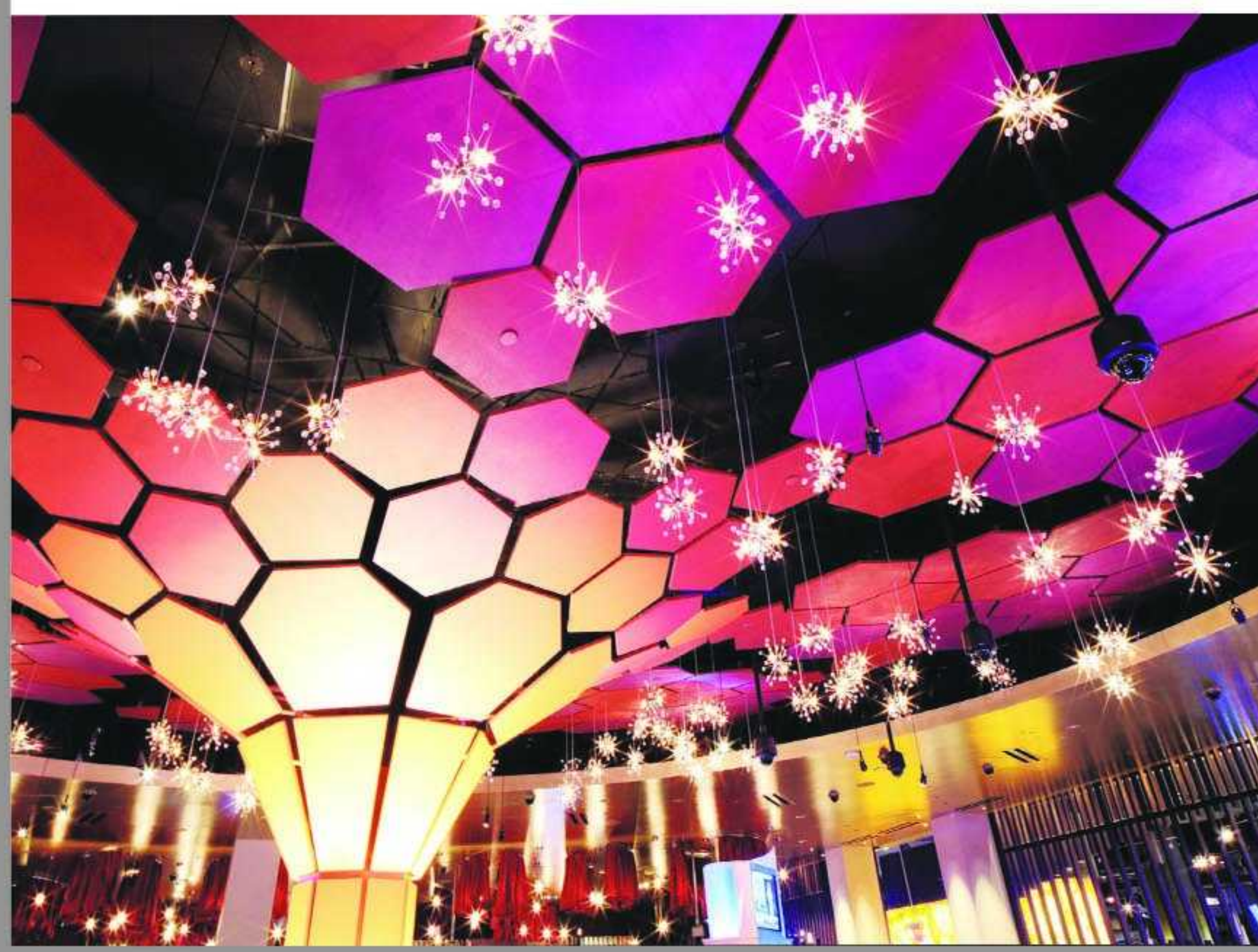




ACOUSTIC FALSE CEILING & WALL SYSTEM SOLUTION



Armstrong®
CEILING SOLUTION

About CMS Group

Company Profile

CMS Group (Construction Material Solutions) is a construction material and building service oriented group. The company steeped in history having been operating in Kathmandu over two decade. It started operating as a retail as well as wholesale entity whereby its initial activities including trading building and construction material in the Nepalese market.

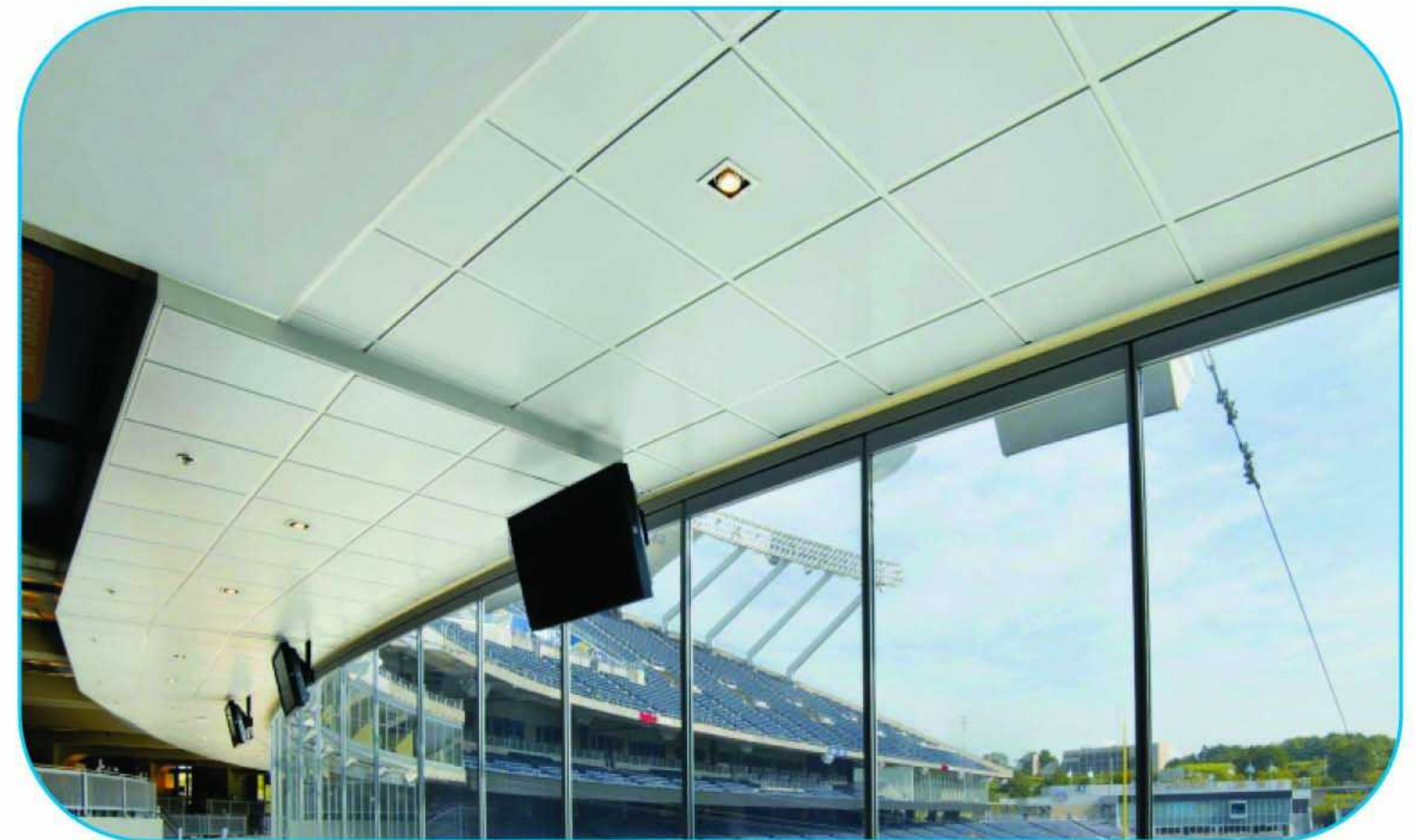
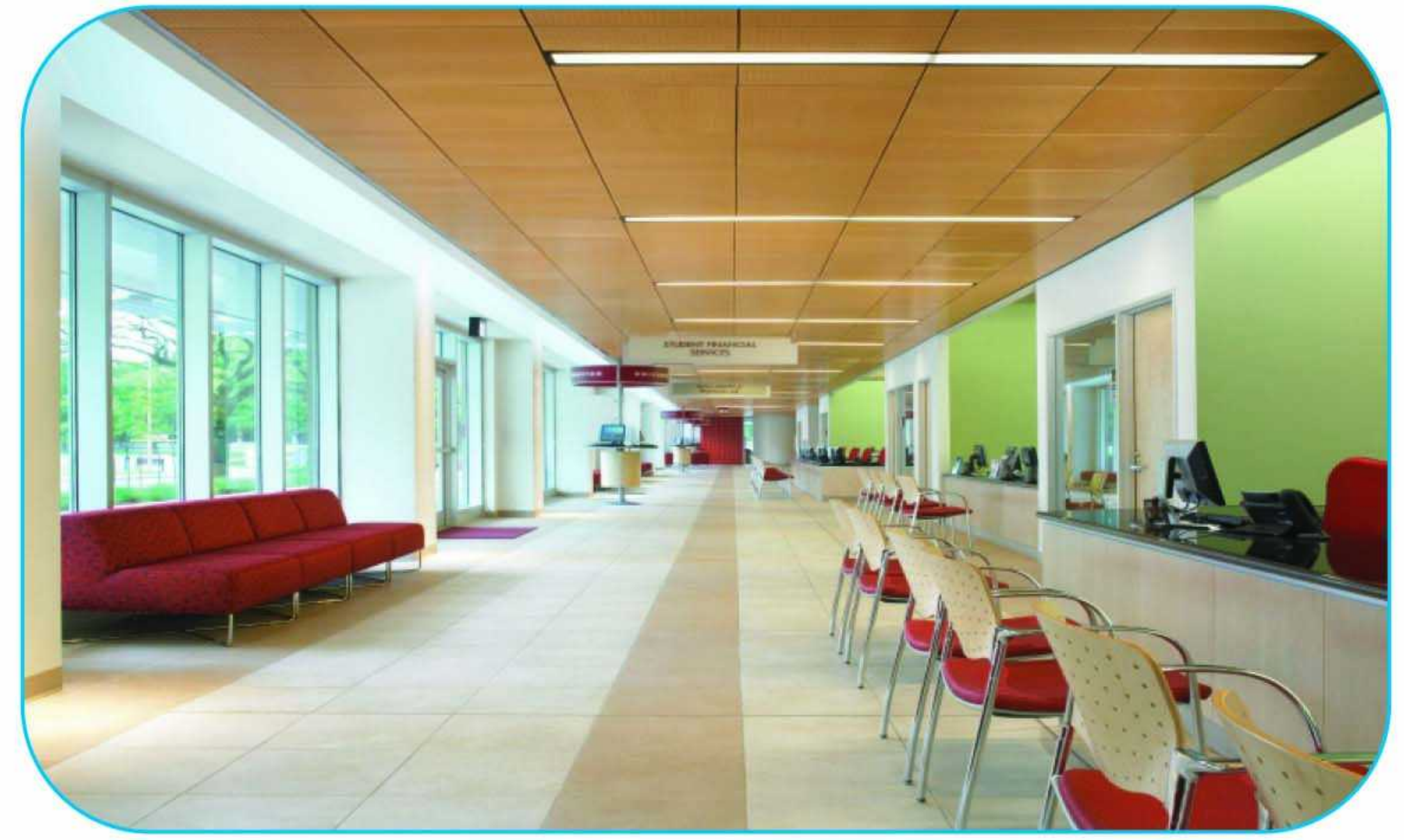
Who we are ?

We provide professional client-focused construction solutions. As a professionally managed company, we go above & beyond on every project on our promises with integrity, whose daily actions are guided by our core values. Our commitment to outstanding job completion, exceptional customer service & superior safety performance has made us a partner of choice in the construction industry. Our extensive in each & every realm is driven by the breadth and depth of our qualified teams.



A Venture of CMS Group

Represents Armstrong Acoustic False Ceiling and wall panel in Nepal Market.



About Armstrong & Product

ARMSTRONG WORLD INDUSTRIES, Inc.

A Pennsy Ivania corporation (H.O.) incorporated in 1891. Armstrong World Industries(AWI) is a global leader in design and manufacture of innovative commercial and residential ceiling, wall and suspension system solutions. Fiscal 2015 revenues from ceiling operations in excess of **\$1.2 billion**. **32 plants** in **eight countries**(including Europe, India, China & so on...) 9,100 employees worldwide. Armstrong ceilings have acoustical properties which also address fire and seismic concerns.

INDEX

SCALA RH70 & CLASSIC LITE™ RH99

DUNE SUPREME & METAL CEILING (PLAIN & PERFORATED)

BIOGUARD ACOUSTIC RH 99 & OPTRA FALSE CEILING

OPTRA WALL & WOODWORK FALSE CEILING & WALL PANELS

SOUND SCAPES SHAPE & SOUND SCAPES CANOPIES

CHANNEL & SUSPENSION SYSTEM ACCESSORIES



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CEILING SOLUTION

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SCALA RH70



BENEFITS

- Non-directional visual
- Easy to install and maintain

APPLICATION AREAS

- Small Offices
- Education
- Clinics & Nursing homes
- Retail
- Corridors / Lobbies

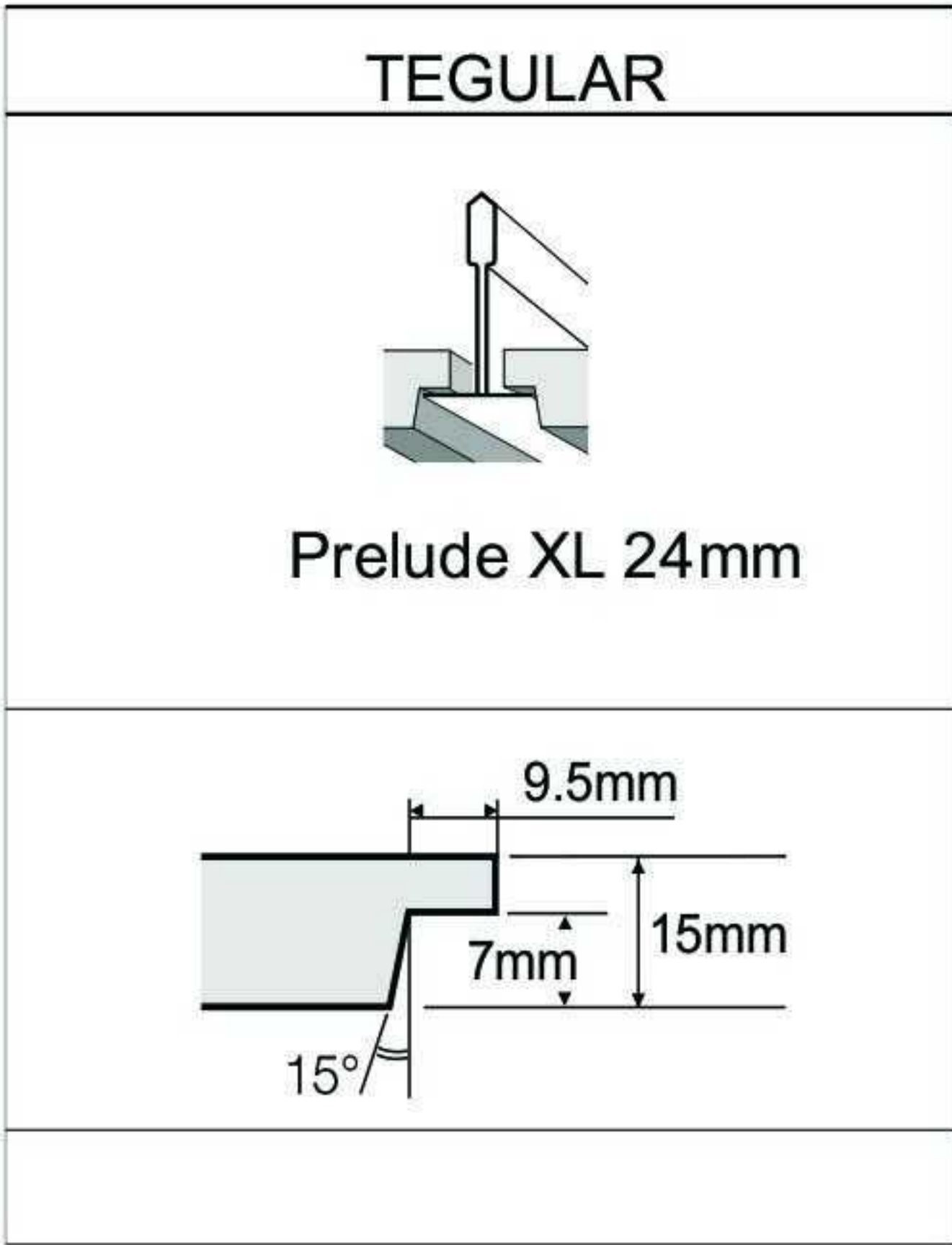
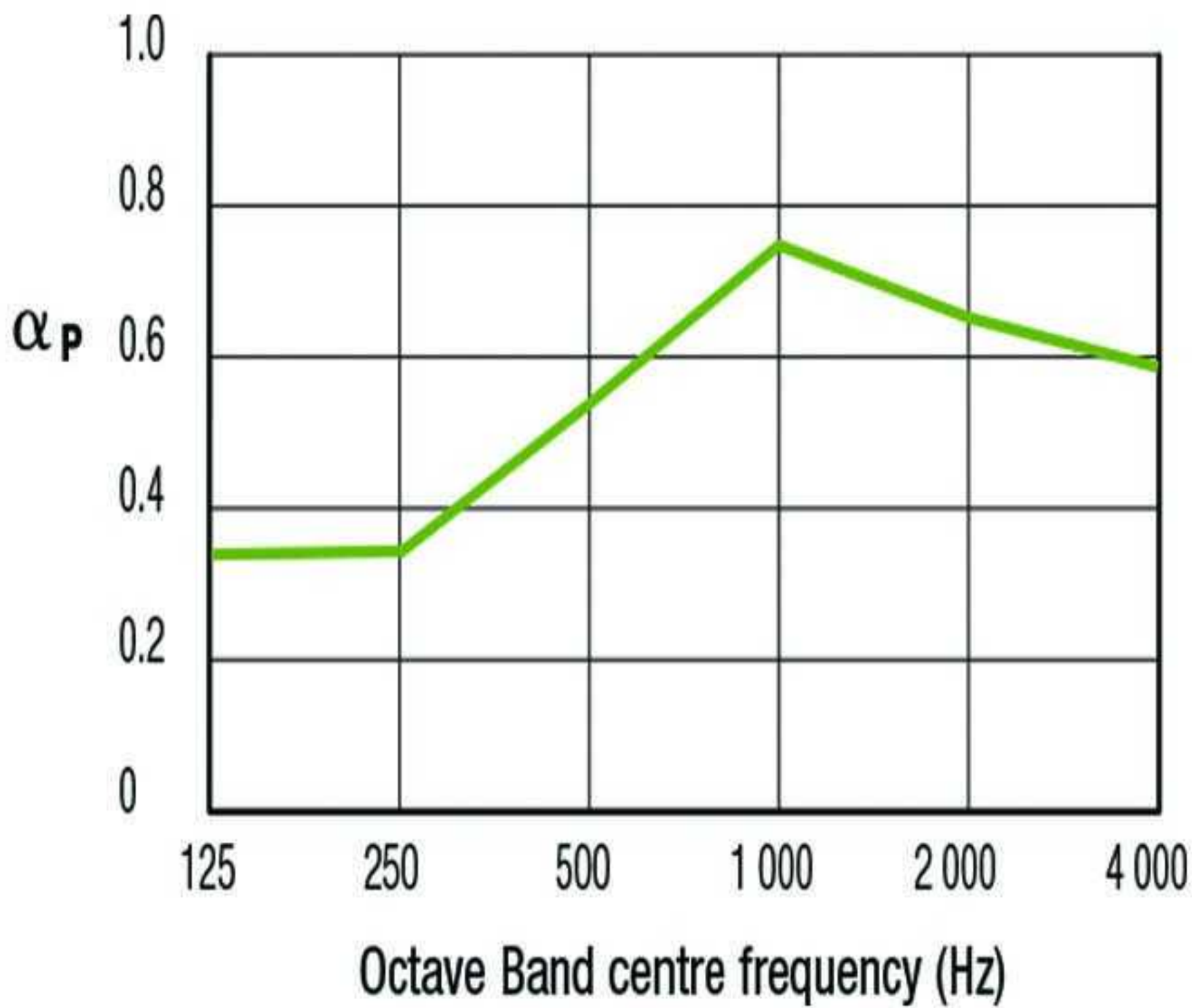
10 YEAR
warranty
Warranty

with Armstrong Steel Angle#

**49 %**
Recycled Content

**84%**
Light Reflectance

**(?)**
Concentration



600 x 600 x 12 mmW8672.....W8678



NRC = 0.50



Dncw= 32 dB



UK Class 0/Class 1 (BS 476 Pt - 6&7)



λ = 0.052 - 0.057 W/mK



RH 70%



$\cong$ 3.0 kgs/m²

CLASSIC LITE™ RH99



BENEFITS

- Non-directional pin hole visual saves installation time & wastage
- Superior humidity resistance: RH99

APPLICATION AREAS

- Offices
- Education
- Healthcare
- Retail
- Corridors / Lobbies

30 YEAR
warranty
Warranty

with Armstrong Steel Angle

**30%**
Recycled Content

**87%**
Light Reflectance



NRC = 0.55



CAC = 33 dB



UK Class 0/Class 1 (BS 476 Pt - 6&7)



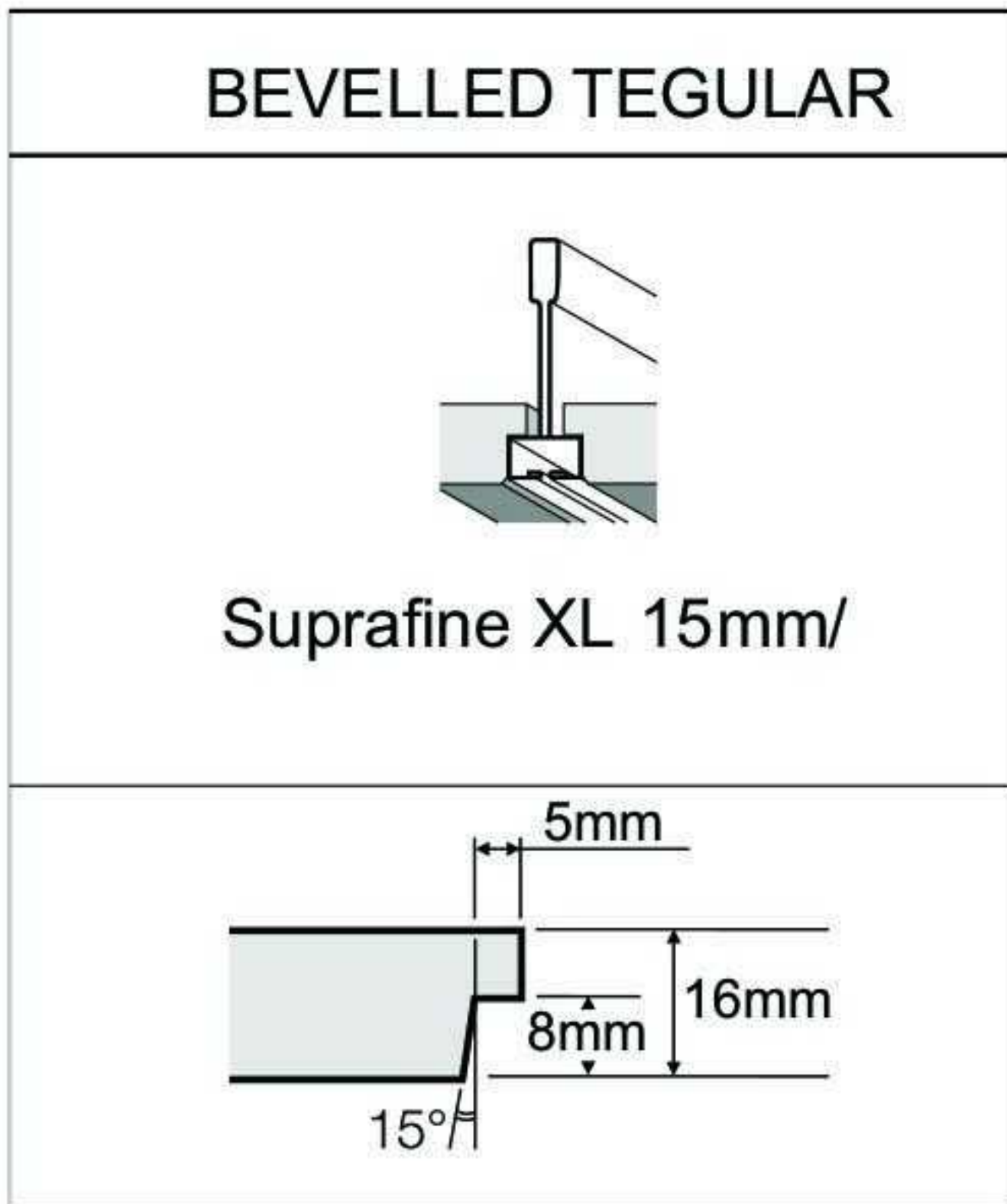
λ = 0.052 - 0.057 W/mK



RH 99%



$\cong$ 3.1 kgs/m²



600 x 600 x 16 mmH1890M.....H1892M.....H1896M

Armstrong®
CEILING SOLUTION

DUNE SUPREME RH99



BENEFITS

- Premium sand textured finish.
- Enhanced acoustical intelligibility
- Improved durability
- Superior humidity resistance: RH99

APPLICATION AREAS

- Offices
- Education
- Healthcare
- Retail
- Corridors / Lobbies

30 YEAR
warranty
Warranty

with Armstrong Steel Angle

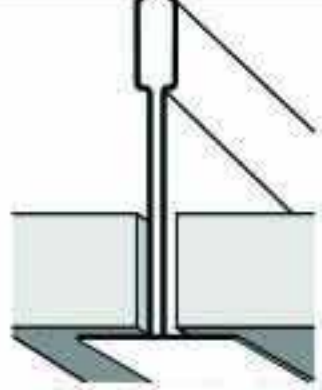


44%



84%

Recycled Content Light Reflectance

BOARD	
 XL 24mm	 NRC=0.50
 14 mm	 DNC = 35 dB
H469M	 UK Class 0/Class 1 (BS 476 Pt - 6&7)
 600 x 600 x 15 mm.....	 RH 99%
 $\lambda = 0.06 \text{ W/mK}$	 @ 84%  3.7 kgs/m ²

Metal Work False Ceiling (Plain & Perforated)

Perforations

Products are offered in Plain, Perforated, Microperforated and Extra Microperforated. Most Perforated and Microperforated items are produced with a nominal 10 mm plain border. Extra Microperforated products have an overall perforation. Apart from defining the visual appearance of the product, the perforation will also influence the acoustic performance of the ceiling.

Light Reflective

MetalWorks offers a range of light reflectance values between 63 & 87%.

Colour

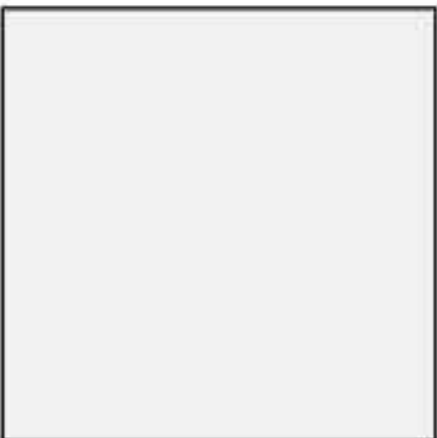
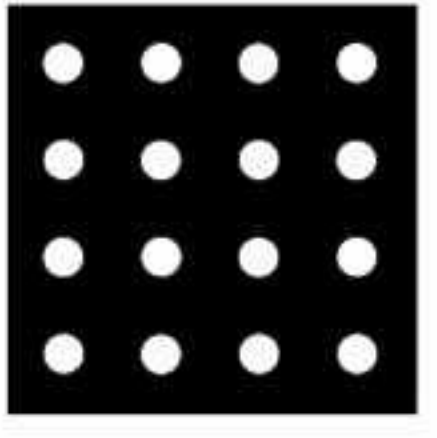
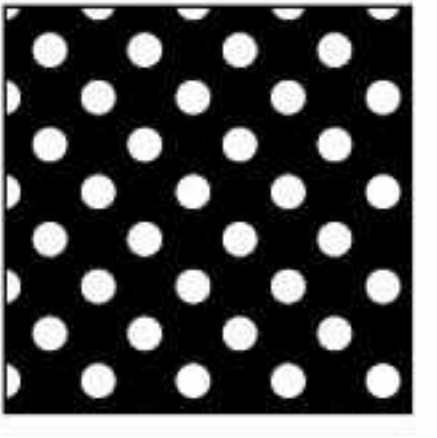
Standard colour / Global White (12% gloss)

MATERIAL

Products are made of zinc coated steel, aluminium or stainless steel.



(1)

Plain	Perforated	Microperforated
 No perforation	 2.5 mm dia. holes 16% Open area Square pitch	 1.5 mm dia. holes 22% Open area Diagonal pitch

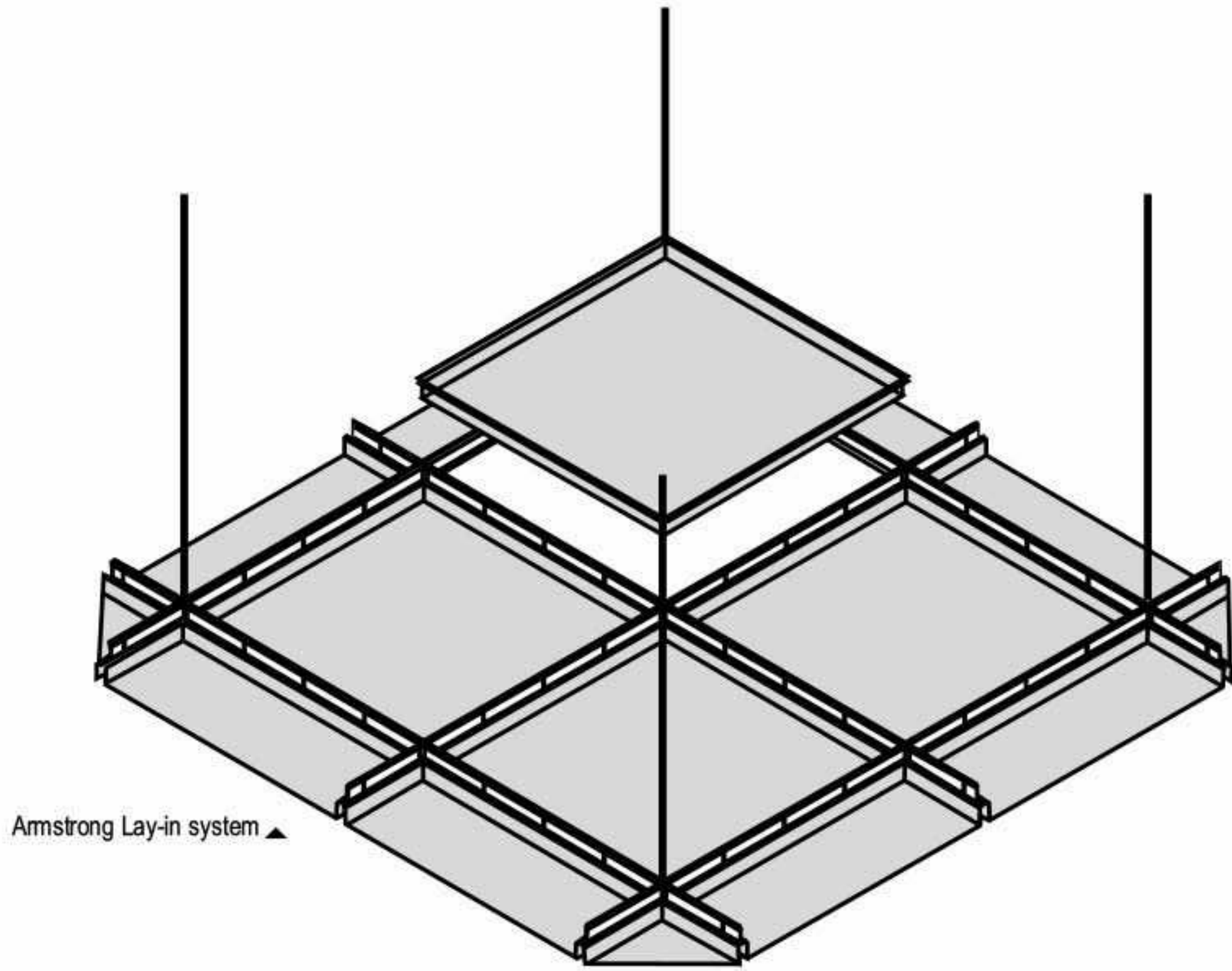
600 x600 mm



Sprinkler head fitted through circular cut-out



Recycled Content: Steel - 25%; Aluminium - 50%



Armstrong Lay-in system

Armstrong
CEILING SOLUTION

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BIOGUARD® PLAIN Rh99 (PLAN & PERFORATED)



BENIFITS

- Special anti-microbial performance to assist with infection control
- Clean room performance : ISO 5 (Class-100)
- Durable, washable, soil resistance, water repellent
- High acoustic performance
- High light reflective finish

APPLICATIONS AREA

- Healthcare (Severe Risk Zones)
- Emergency Rooms
- Neonatology
- Burns units
- Oncology
- ICU & ICCU
- Recovery & Delivery Rooms
- Cleanrooms
- Corridors / Lobbies

Warranty offered only when ceiling tiles installed with Armstrong steel angles and installation is carried out as per Armstrong recommendations. For more details please refer the Armstrong India website.

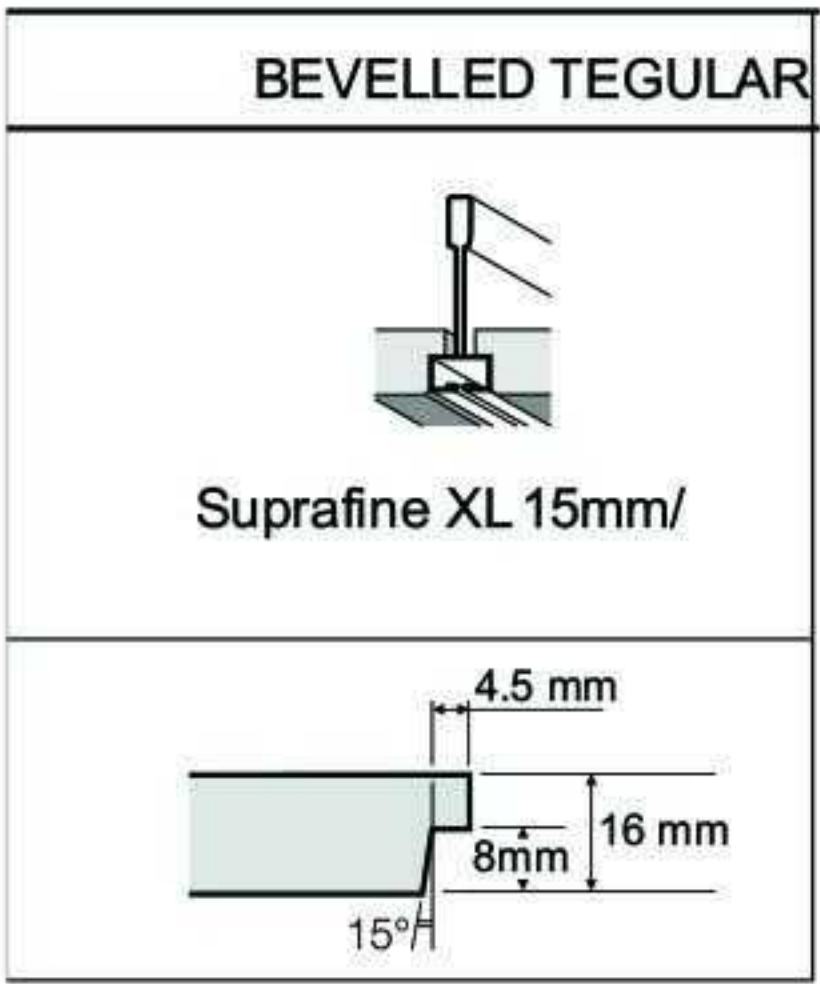
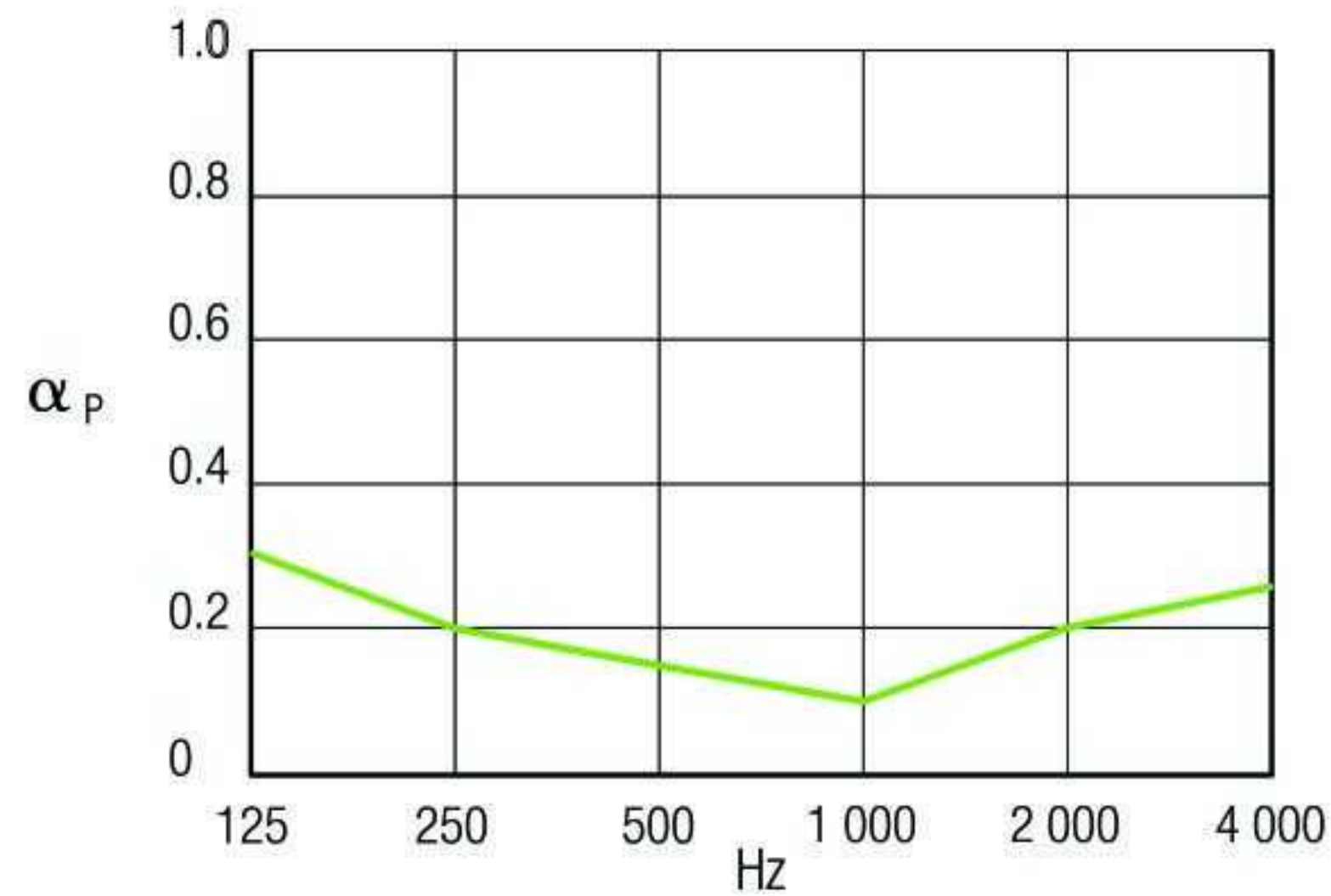


34%



90%

Recyc led ContentLight Reflectance



α_w	NRC	125	250	500	1000	2000	4000
0.15 (L)	0.15	0.30	0.20	0.15	0.10	0.20	0.26

Dncw = 35 dB

UK Class 0/Class 1 (BS 476 Pt - 6&7)

Quaternary Ammonium, Hydrogen Peroxide, Chlorine

Fungicide & bactericide

500 wash cycles according to ASTM D-4828

λ = 0.052 - 0.057 W/mK

RH 99%

≈ 4.5 kgs/m²

600 x 600 x 19mmH5156.....H5188.....H5190

OPTRA (SOFT FIBRE CEILING SOLUTIONS)

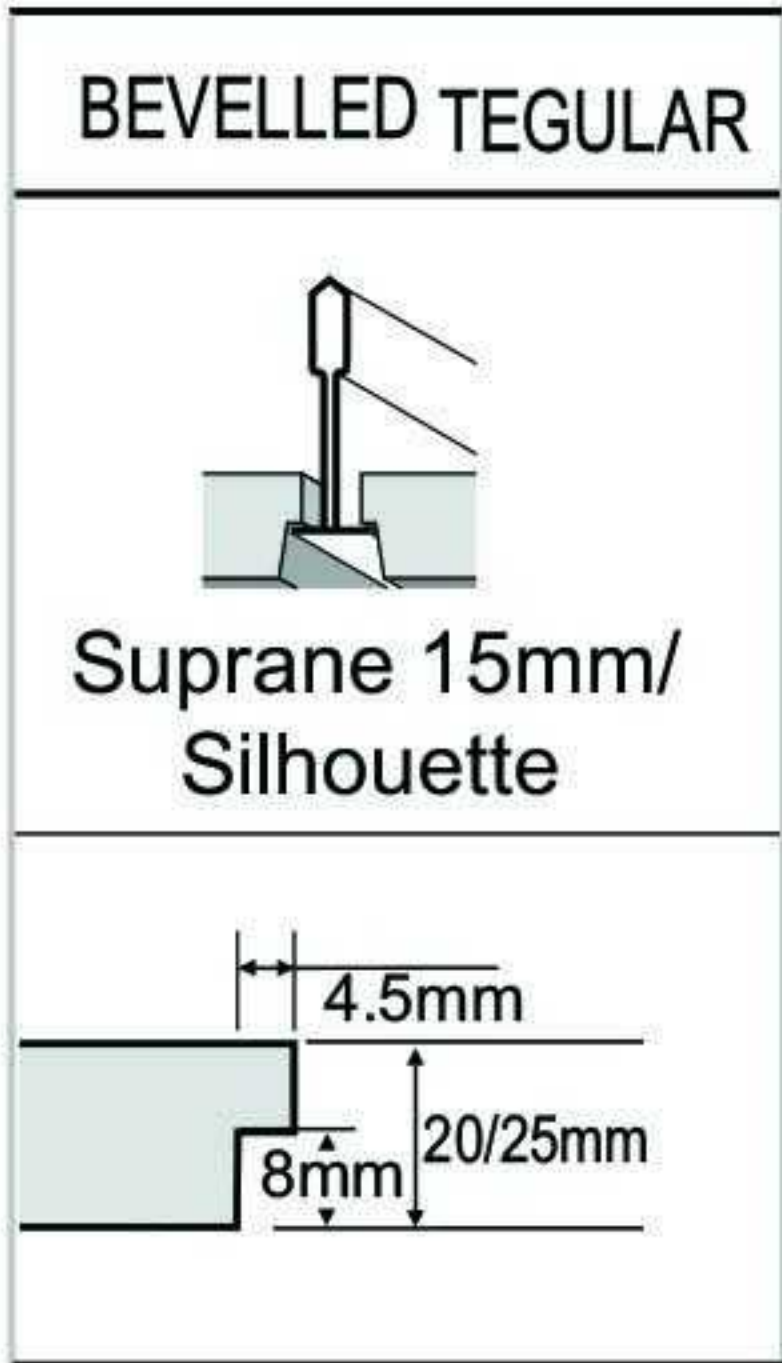


BENEFITS

- High Sound Absorption 0.90 NRC
- High light reflection $\approx 85\%$
- Appending smooth surface
- Available in large variety of sizes, colors, patterns & edge details

APPLICATION AREAS

- Open plan offices
- Call Centres (IT/ITRS)
- Large conference Rooms
- Education
- Theatres / auditoriums



10 YEAR
warranty

with Armstrong Steel Angle#

Warranty

*66%
#74%
Recycled Content
^Symbol for GW * and RW #

COLOR SELECTION



White
(Standard)

Black

600 x 600 x 15 mm



	Hz	125	250	500	1000	2000	4000
α_w	NRC	0.90	0.64	1.00	0.96	0.80	0.92
OPTRA FG WHITE CLASSIC 15 mm		0.90	0.64	1.00	0.96	0.80	0.92
OPTRA FG WHITE PEARL 15 mm		1.0	0.88	1.12	1.16	0.88	1.08



$\approx 85\%$



95% RH



UK Class 0/Class 1 (BS 476 Pt - 6, & 7)
China CH Class A



15 mm:1.8 kgs/m²
20 mm:2.3 kgs/m²
25 mm:2.8 kgs/m²

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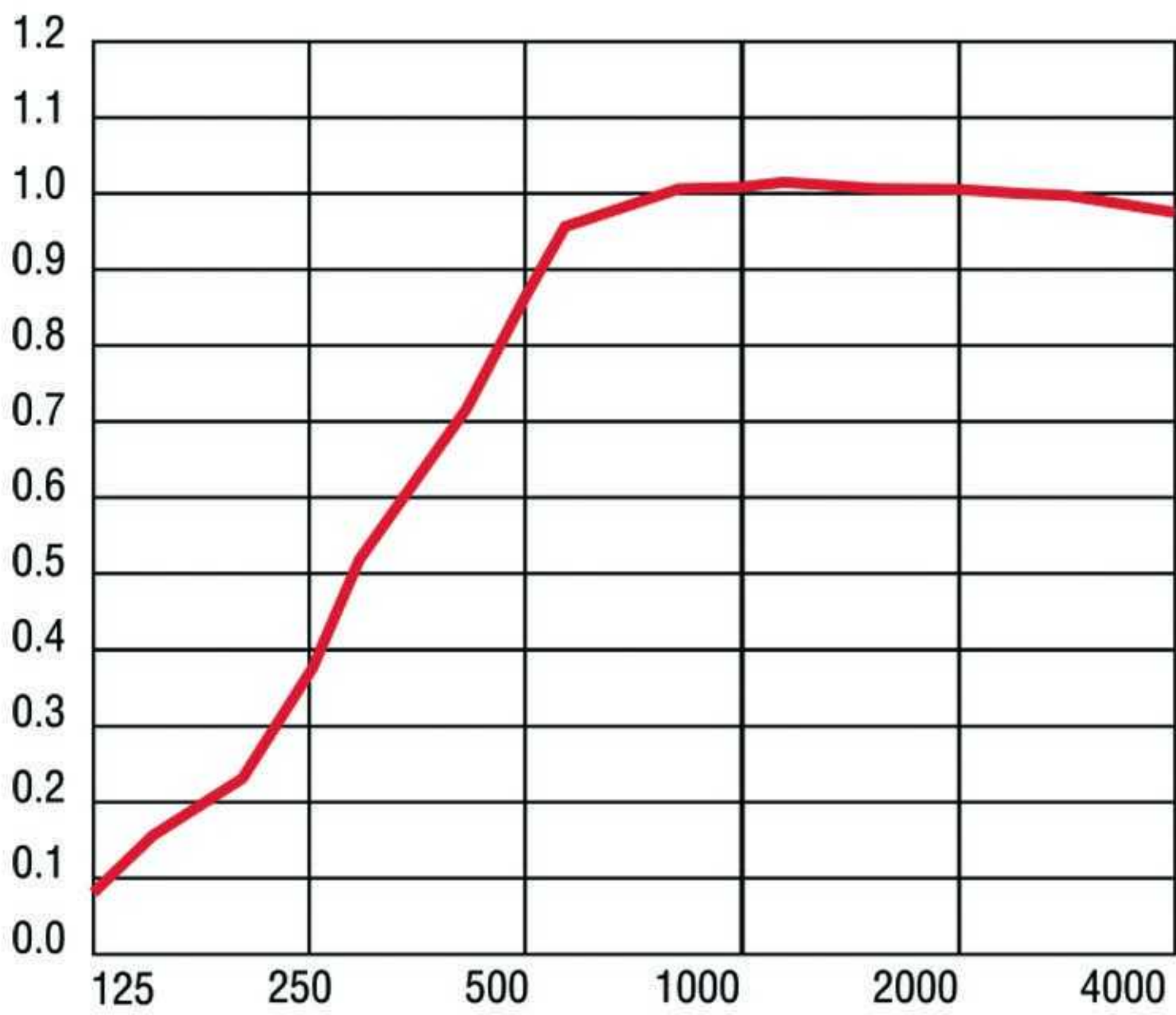
www.armstrong.co.in

OPTRA ACOUSTICAL WALL PANELS



NRC	125	250	500	1000	2000	4000
0.85	0.08	0.38	0.86	1.07	1.04	0.97

ASTM E-84 : Class A



- APPLICATION AREAS
- Atriums/Lobby
 - Theatres and Auditoriums
 - Home Theatres/Sound Rooms
 - Conference Room
 - Office
 - Commercial Spaces

SQUAR EDGED

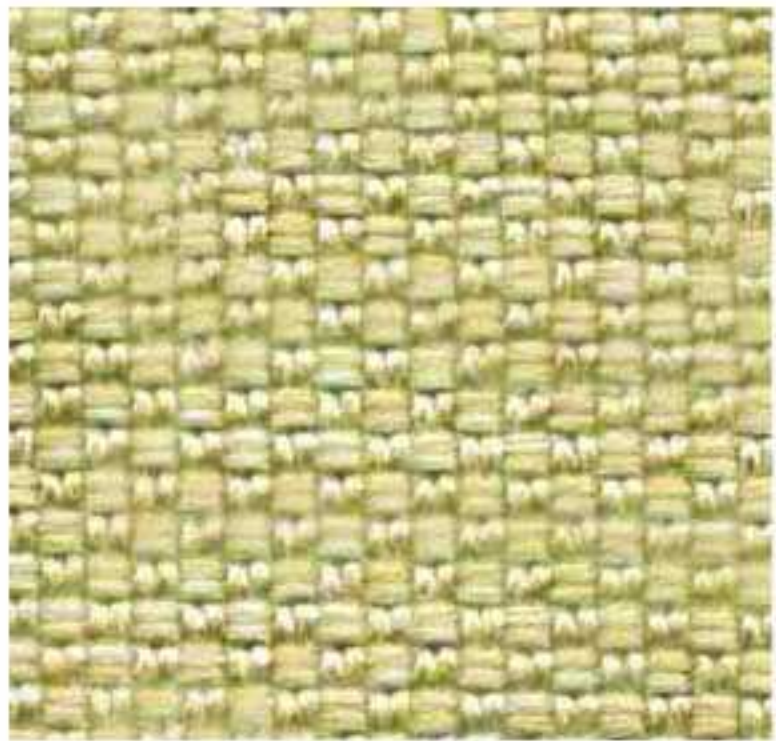
600 x 1200 x 25mm

ACOUSTICAL PERFORMANCE

Optra acoustical wall system absorb 85% of sound striking the surface-reducing noise within a space and reducing noise transfer between spaces desiring the practicality of a tackable surface.



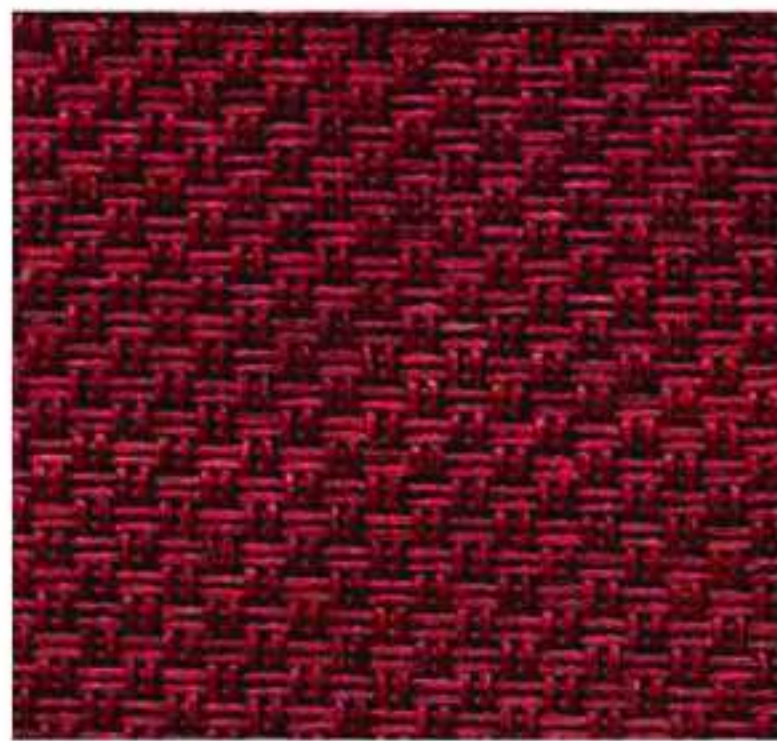
Fabric



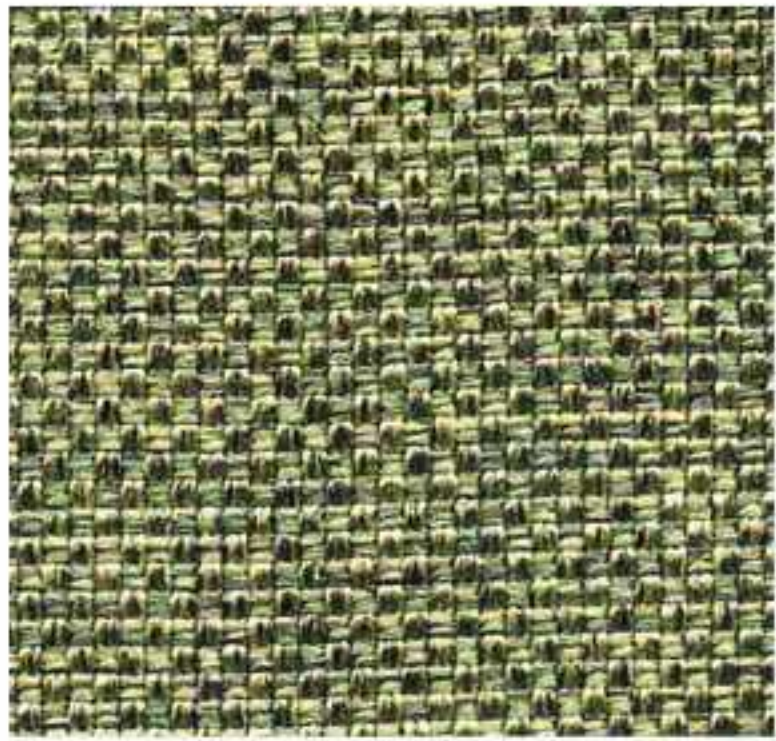
Husk JT-06



Copper JT-13



Sangria JT-17



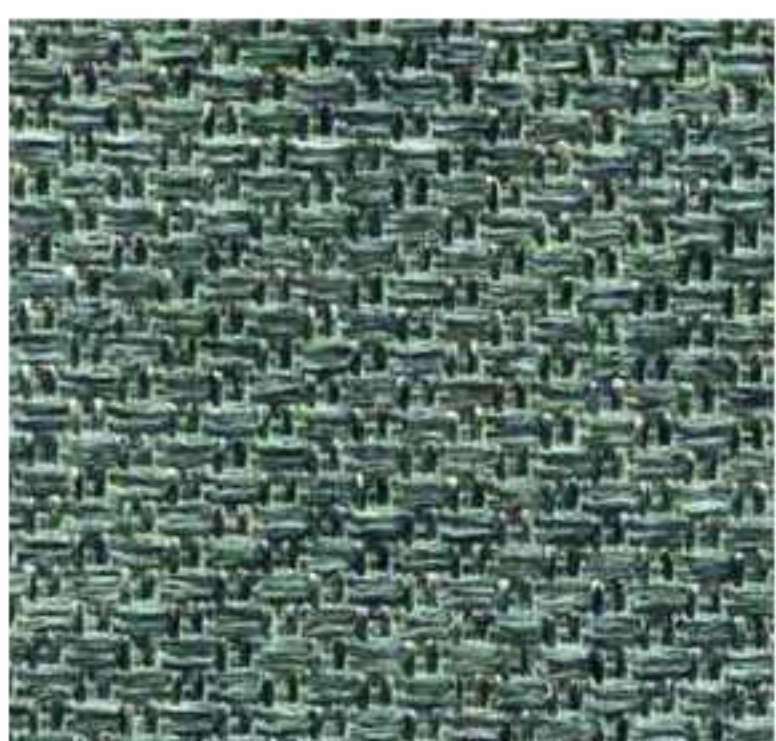
Sesame VL-27B



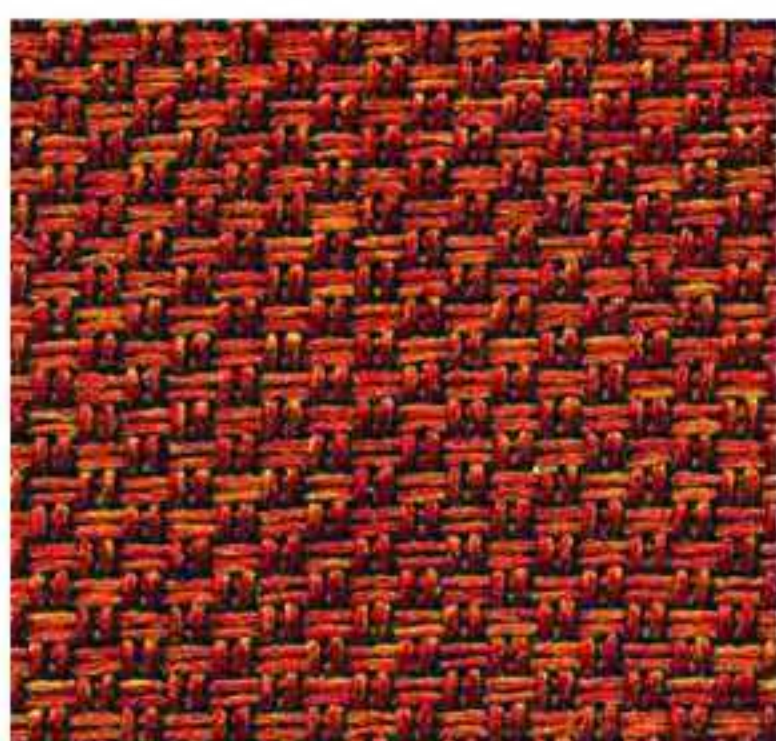
Cofee VL-08N



Charcoal JT-14



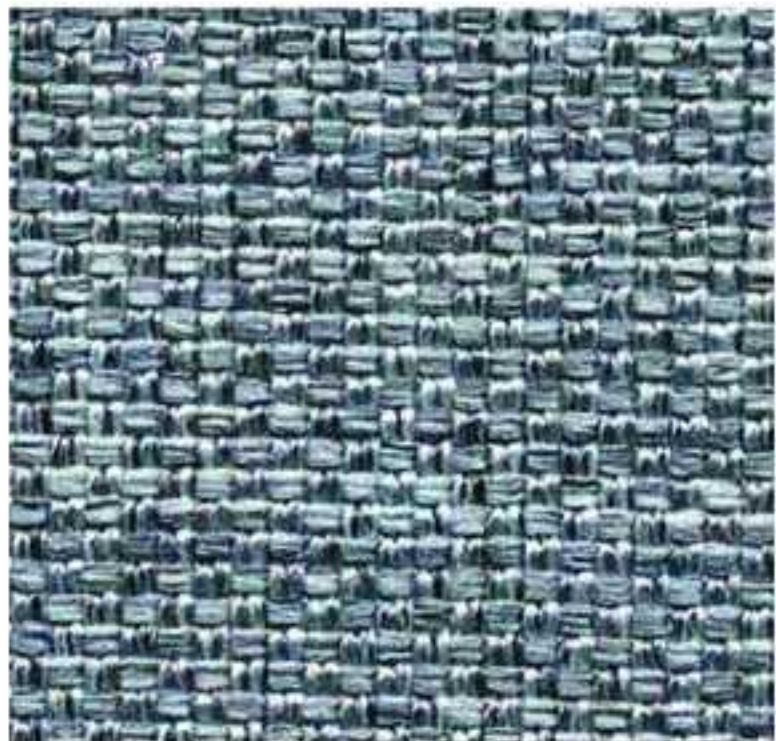
Titanium JT-07



Flame JT-16



Peanut JT-12



Shell VL-22

WOODWORKS WALL PANELS & FALSE CEILING

Woodwork False Ceiling

NEW

16mm

28mm

Installation with 300mm air gap.

Rg6011

Also available in PLAIN

NRC	125	250	500	1000	2000	4000 Hz
0.55	0.27	0.64	0.57	0.53	0.46	0.48 α_p

600 x 600 x 18 mm



Material
High density fibre board used as substrate have fire classification as Class 1.

Surface Finish
Available in veneer, printed laminate with wooden texture and three solid shades.

Fire Performance
BS476 Part 7 Class1
Application Consideration
Temperature ranging between 20-30°C
Recommended for indoor applications

Panel Weight
Laminate - 10Kgs. Sqm.
Wood Veneer - 10.5Kgs. Sqm.

Warranty
One (1) year limited warranty.

Woodwork Channeled Wall Panels

NEW

3mm

13mm

Installation with 50mm air gap.

Lg1012 (G-13)

NRC	125	250	500	1000	2000	4000 Hz
0.60	0.09	0.32	0.61	0.80	0.65	0.58 α_p

NEW

3mm

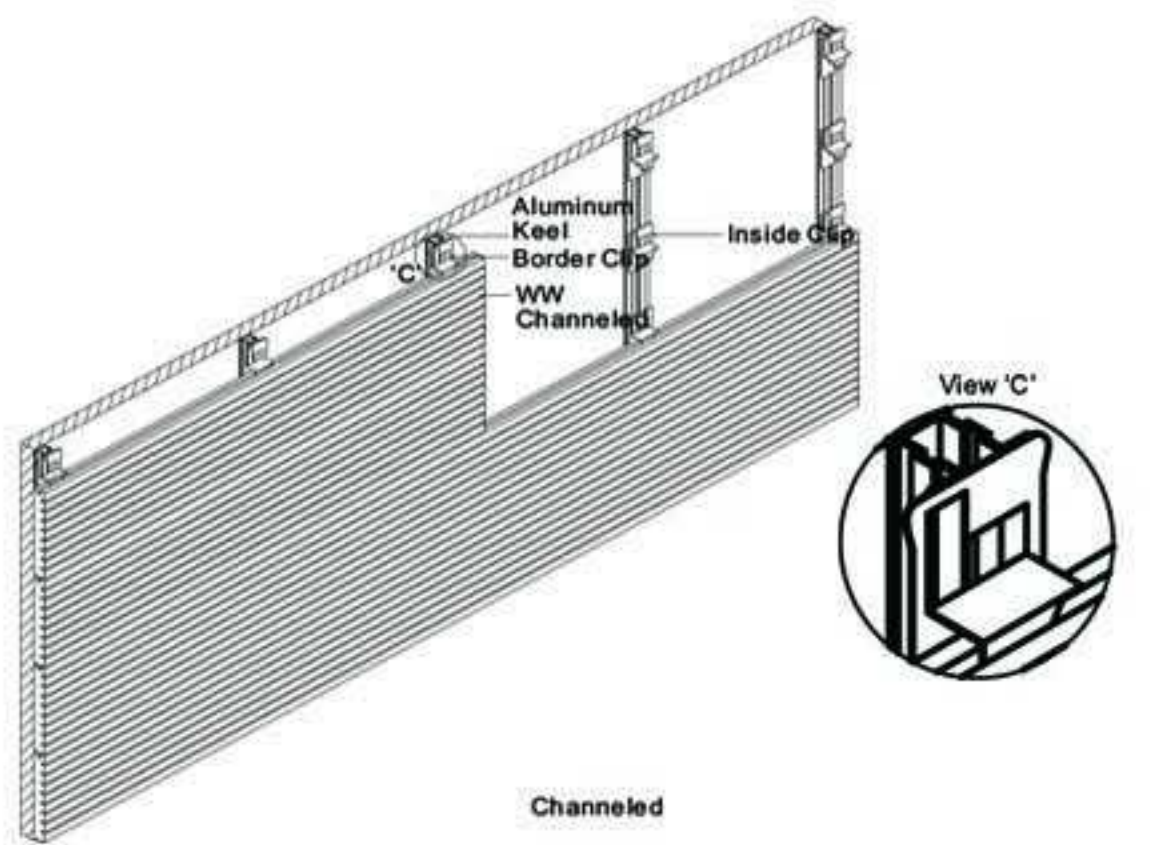
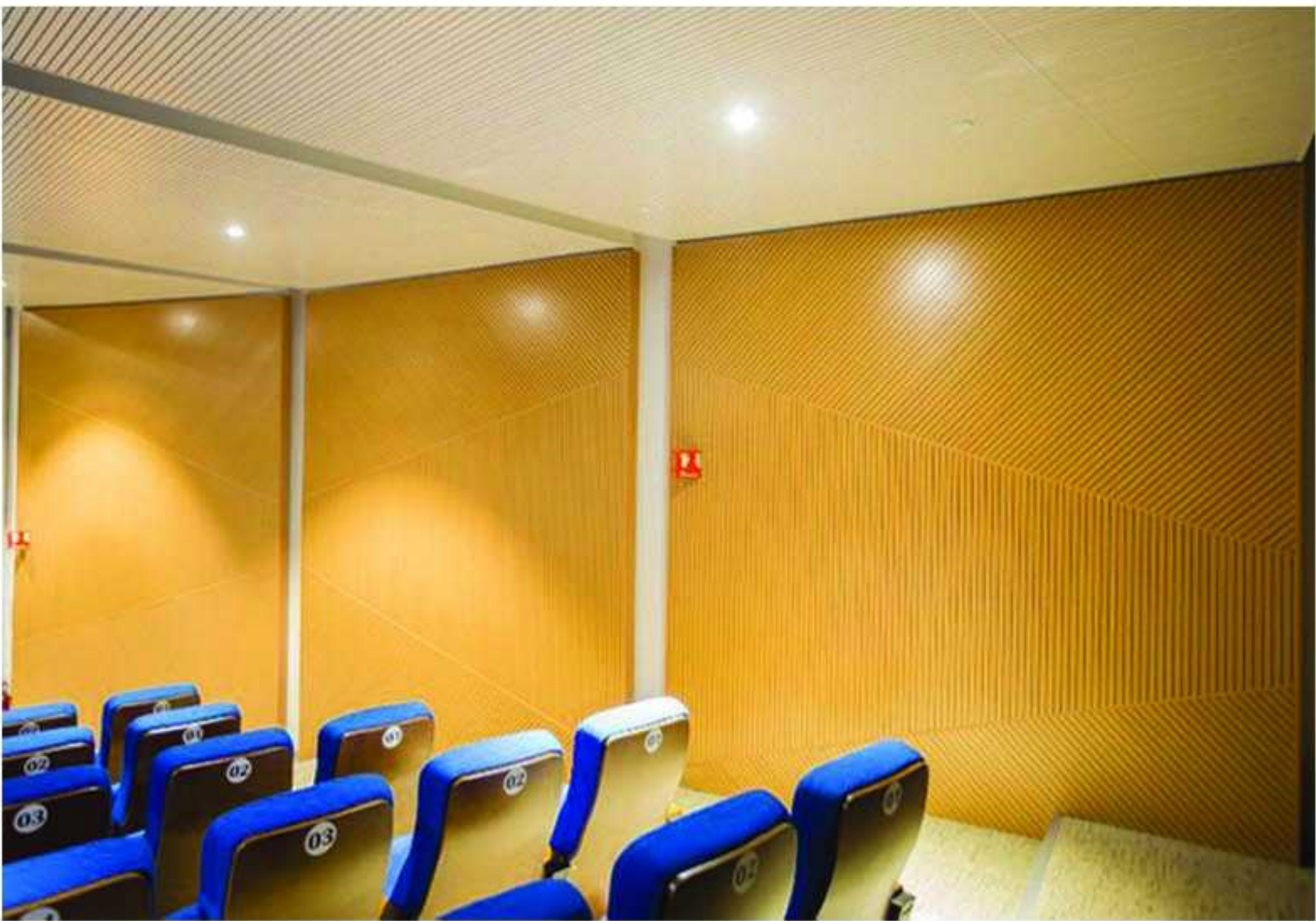
21mm

Installation with 50mm air gap.

Lv1004 (G-21)

NRC	125	250	500	1000	2000	4000 Hz
0.50	0.13	0.39	0.67	0.63	0.40	0.38 α_p

2400 x 192 x 15 mm



COLOR SELECTION* Laminate (common for ceilings and wall panels)

Portland Maple

Sea Beech

Siam Wood

Mystique Walnut

Interior White

Alumina Pearl

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SOUNDSCAPES SHAPES & CANOPIES



Soundscapes Canopies panel material is - ASTM F64 Class A; Flame Spread 25 or under and Smoke Developed 50 or less.
Painted sides, Standard White has energy-saving, high light-reflective finish (IR 0.90).

BENEFITS

- Enhance acoustics in open areas
- Improves sound absorption and reduces reverberation time
- Aesthetically defines space
- Options of 10 flat "Shapes" panels and three standard sizes
- Install individually or in groups - create your own design
- Adjustable angle of inclination
- Complete range of suspension accessories
- Available in 13 new semi-custom shapes
- Adjustable height with multipoint panel hook kits

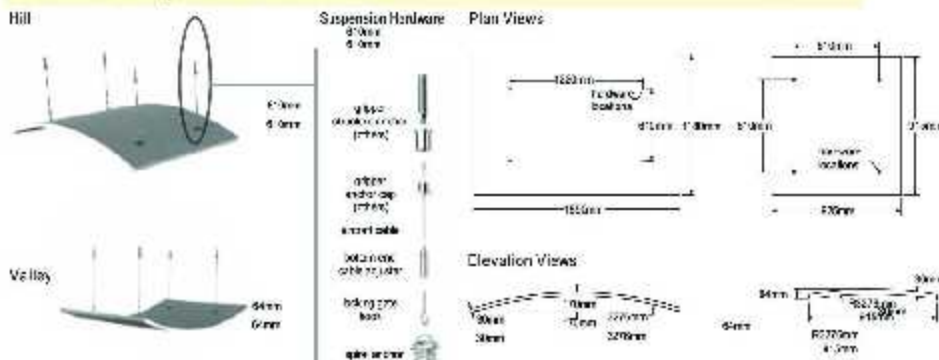
APPLICATION AREAS

- Offices
- Education
- Reception and lobbies
- Restrooms and lounges
- Leisure centers
- Transport terminal (Airport and Metro hubs)
- Naturally lit areas with sky light

Panel Weight

Large Canopy - 23 Kgs./Panel
Small Canopy - 8.5 Ks./Panel

Installation Options and Details



Color Selection



For painting, primer and undercoat are required. Final color may be different from the color shown on the palette.



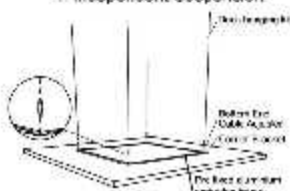
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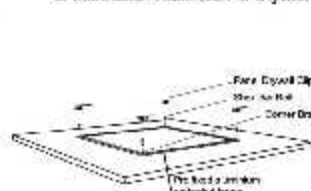
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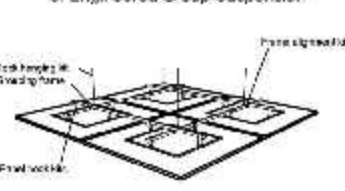
1. Independent Suspension



2. Individual Attachment to Drywall



3. Engineered Group Suspension



Thickness: 30mm

SURFACE FINISH

Durable scrim with factory applied paint
Edge Detail: Painted square edge
Humidity resistance: 95% RH
Light reflectance: 90%

FIRE PERFORMANCE

Class A2-s1, a0 as per GB 8624-2006

PANEL WEIGHT

30mm : 4 kgs/m²
6.5 kg/m² with hanging frame

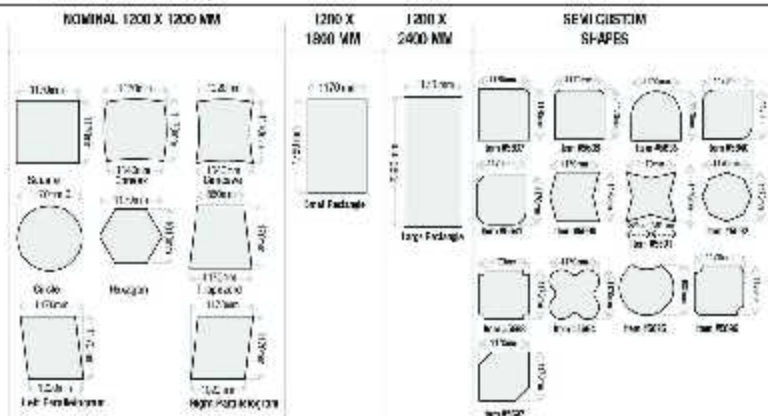
WARRANTY

One (1) year limited warranty

SOUNDSCAPES SHAPES



Shapes



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PRELUDE 24 - EXPOSED SUSPENSION SYSTEM 24 MM (NOMINAL)



24 mm XL PRELUDE 32

Item No.	Component	Dimensions length height (mm)	System load carrying capacity kg/m
Main Runner	900	37.7	
1200 mm cross tee	1200	27	
300 mm cross tee	300	25	7.58

SUPRAFINE 15 - EXPOSED SUSPENSION SYSTEM 15 MM (NOMINAL)



15 mm SUPRAFINE 32

Item No.	Component	Dimensions length height (mm)	System load carrying capacity kg/m
Main Runner	900	35	
1200 mm cross tee	1200	32	
300 mm cross tee	300	32	7.58

SILHOUETTE XL 15 MM (NOMINAL) DESIGNER STEEL ANGLE

Silhouette with 6 mm reveal is available either in Armstrong Global White or Global White with black reveal (51).



SILHOUETTE 38 (6mm black reveal)

Item No.	Component	Dimensions length height (mm)	System load carrying capacity kg/m
Main Runner	900	35	
1200 mm cross tee	1200	35	11.25
300 mm cross tee	300	35	

SUSPENSION ACCESSORIES



BPGM 50651 Anchor Fastener
Used to secure the ceiling suspension hanger wire to the structural soffit/deck.



BPGM2010A1 Hook Clip with J wire assembly
Connects 2.66 mm hanger wire to the main runner; recommended for renovation & fast track applications; provides easy adjustment of ceiling height.



BP 78915bd9l (Ø2.5mm, L 1200mm)
BP 78915bd10l (Ø2.5mm, L 1800mm)
12 Gauge Soft Hanger Wire
Used to hang suspended ceilings from structural deck.

AXIOM® PERIMETER SOLUTIONS

Knife Edge® Axiom



Knife Edge profile
(AXKEP25TR42)

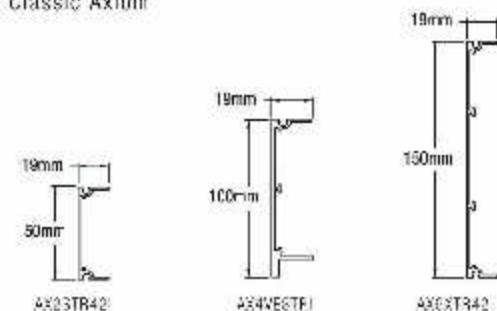


Standard factory welded corners for Knife Edges
Inside - AXKE50101
Outside - AXKE9000

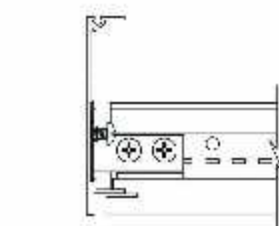


Knife Edge AXIOM® with Beaded Edge Trim

Classic Axiom



Classic AXIOM® Vector Trim profiles



Classic AXIOM® with Vector Edge Trim

PHYSICAL DATA (COMMON FOR KNIFE EDGE AND CLASSIC)

Material

Trim Channel: Extruded aluminium, alloy 6063

Hanging Clip: Galvanised steel

T-Bar Connection Clip: Galvanised steel

Splice Plate: Galvanised steel

Colours

Coordinate with Armstrong Global White ceiling and suspension systems. Custom colours are available upon request based on minimum quantity.

Surface Finish

Durable powdercoat

Cross Tee/Main Beam Interface

Flush fit

End Detail

Splice Plate and set screws



A Venture of CMS Group

First Floor, Tara Bhawan (Near Prakash Pharmacy)

Teku Road, Kathmandu, Nepal

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Cell : +977 9801900099

Email : akash@cmsgrps.com



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