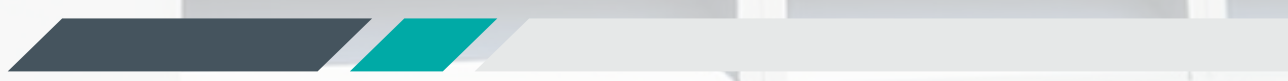
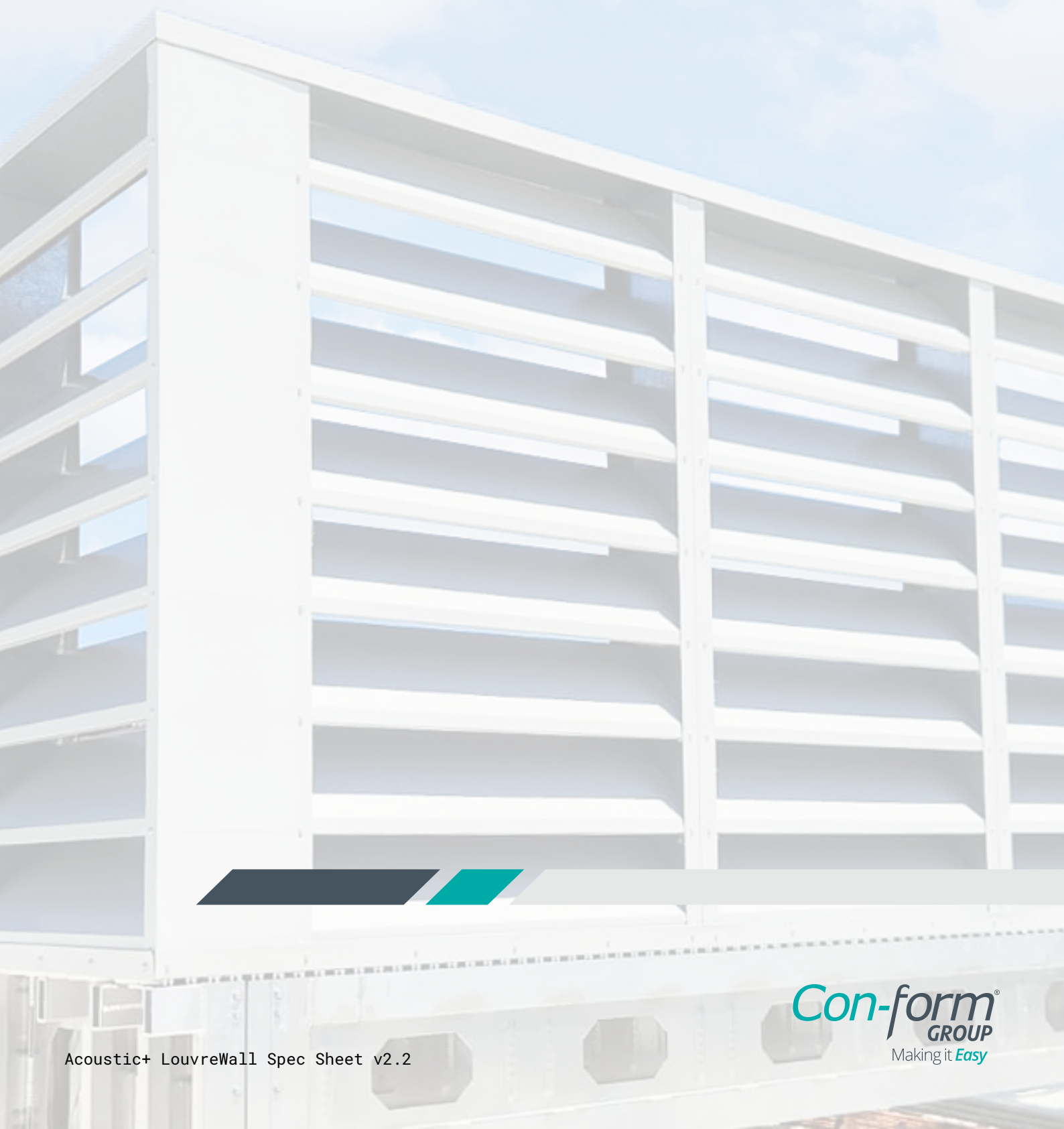


—Acoustic+ **LouvreWall**®

Product Specification Sheet

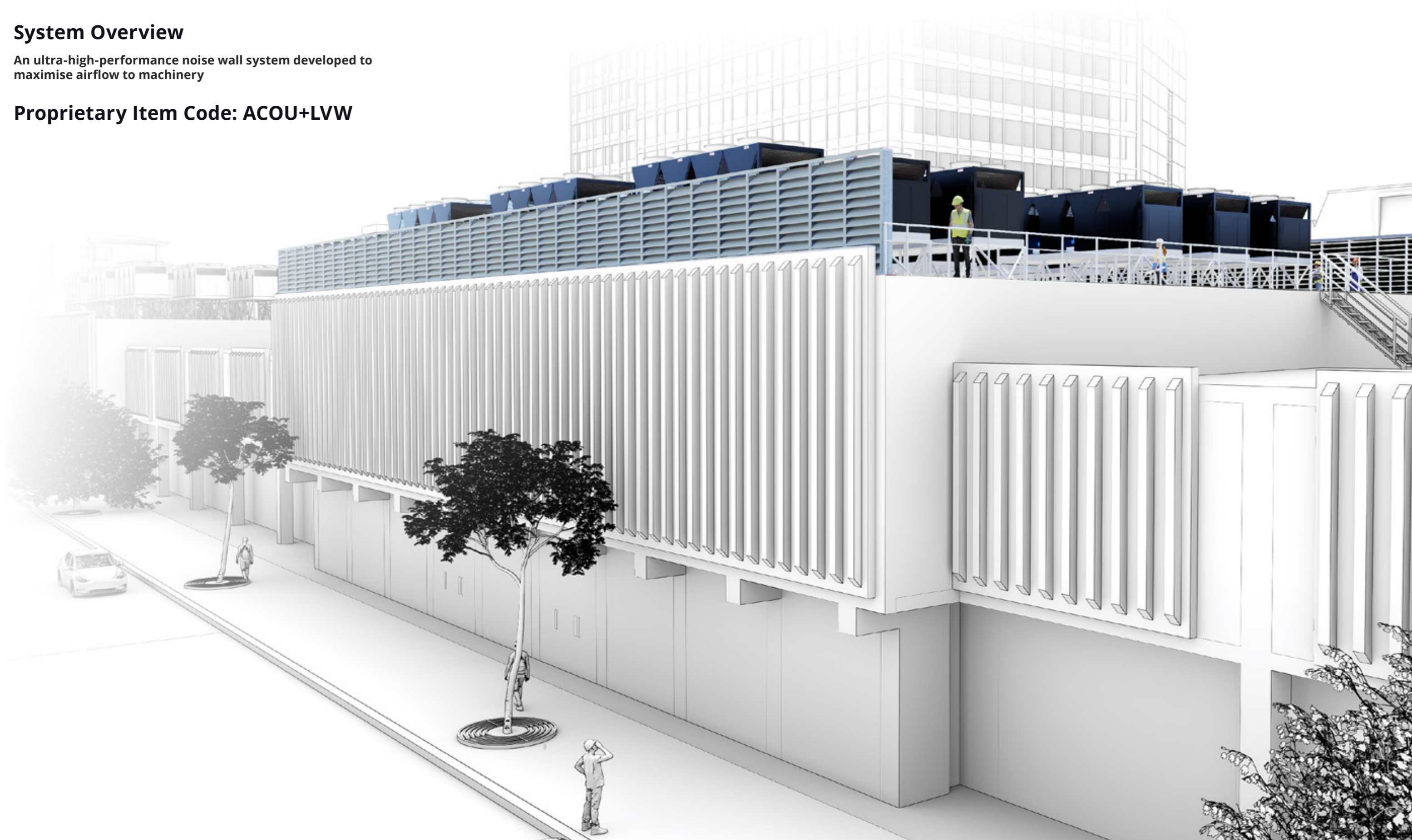


Acoustic+ LouvreWall[®]

System Overview

An ultra-high-performance noise wall system developed to maximise airflow to machinery

Proprietary Item Code: ACOU+LVW



EasyScreen **Range**®

Visual Barriers, Acoustic and Airflow Architectural Screens

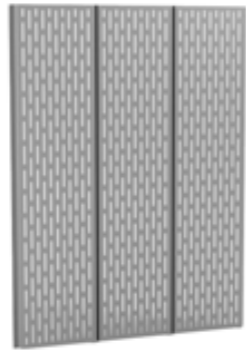
Con-form Group has designed a unique screen to suit every project requirement including noise abatement, airflow management, concealment of unsightly objects and attractive architectural facades.

With smooth visually appealing surfaces, these solid and ventilated screens feature high-quality materials and class-leading performance. Their prefabricated, modular design is easy to install.

Available in a palette of sought after colours to complement or contrast roof scapes, the EasyScreen range is the most stylish and practical solution for an aesthetically pleasing commercial, industrial or residential application.



Conceal **Wall**®
Cost-Effective Visual
Barrier



Conceal **AeroWall**®
Cost-Effective Visual
Barrier with Airflow



Louvre **Wall**®
Visual Barrier with
Performance Airflow



Acoustic+ **Wall**®
Tunable Acoustic Visual
Barrier



Acoustic+ **LouvreWall**®
Acoustic Visual Barrier with
Performance Airflow



Acoustic+ **UltraWall**®
Premium Acoustic Visual
Barrier

Acoustic+ LouvreWall[®]

Applications and Advantages

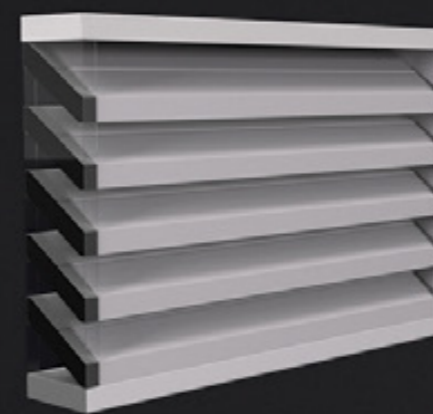
- > Large format stores – Shopping Centres - Supermarkets
- > Data Centres
- > Large condensor screening,
- > General architectural screening,
- > Compressor enclosures and screening,
- > Other mechanical plant equipment enclosures.
- > Acoustic+ LouvreWall is Australia's leading external acoustic wall system in performance, design and value.
- > Con-form Group's most effective system at reducing sound energy whilst maintaining critical airflow and ventilation.
- > Non-invasive - perfect to retrofit.
- > Aesthetic screening with open air flow and can be sized to suit any plant equipment.
- > Can be fitted directly to existing metal deck roofs.
- > Structural components provide highly durable, long-term stability and performance.
- > Built to withstand all weather conditions.
- > Absorptive barrier is moisture resistant, UV resistant and fire retardant.
- > Easy assembly, design reduces the need for additional structural requirements.
- > System remains flexible during and after project design, allowing for changes late into the construction stage

Technical Data

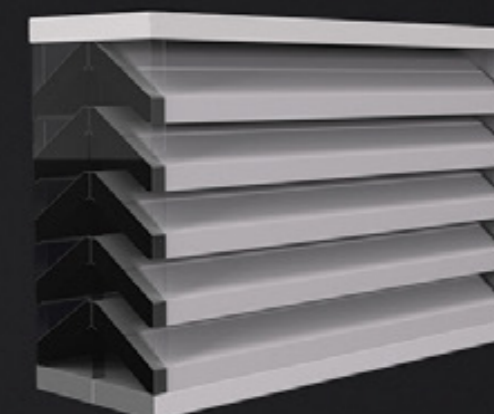
- > NRC (Noise Reduction Coefficient) = 1.05
- > Rw - Can be produced to suit project requirements
- > Airflow - 200mm Deep - 30% Free Open Area
 - 300mm Deep - 47% Free Open Area
 - 400mm Deep Chevron - 33% Free Open Area
 - 600mm Deep Chevron - 47% Free Open Area
- > 200mm Blade Repeats Typical
- > Standard Heights: 1200mm, 1600mm, 2000mm, & 2400mm (Custom Heights Available on Request)

Fire Resistance:

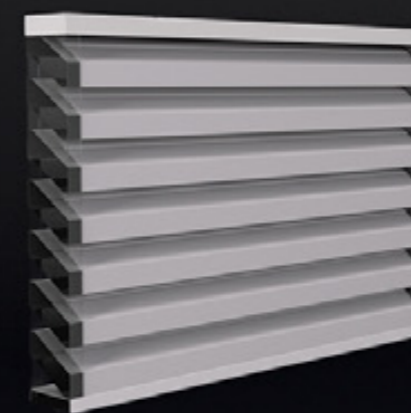
- > When tested in accordance with AS1530.3 (1999), "Early Fire Hazard Properties of Materials", PSB exhibit the following characteristics:
 - Ignitability Index: 0
 - Spread of Flame Index: 0
 - Heat Evolved: 0
 - Smoke Developed Index: 0 – 3



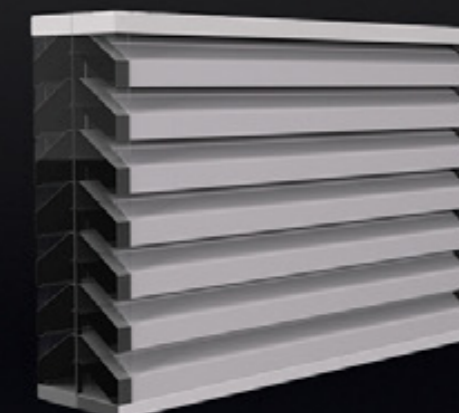
300mm Deep Acoustic Louvre
(Standard)



600mm Deep Acoustic Louvre



200mm Deep Acoustic Louvre



400mm Deep Acoustic Louvre

Acoustic Performance

- > *Acoustic Performance: Available in five surface density options to suite your site-specific needs:*
- > *All options have a noise absorptive surface as a standard.*
- > *Option A = 14.5 kg/m²*
- > *Option B = 20kg/m²*
- > *Option C = 25.5kg/m²*
- > *Option D = 30kg/m²*
- > *Option E = 36kg/m²*
- > *NRC (Noise Reduction Coefficient) = 1.05*

Acoustic+ LouvreWall[®]

Environmental & Health Benefits:

- > Recycled Fibre Content: 80% minimum.
- > Volatile Organic Compounds (VOC's): No harmful VOC's.
 - Formaldehyde Content: Nil
 - Phenol Content: Nil
 - Ammonia Content: Nil
 - Ozone Depleting Potential (ODP): Nil
 - Chloride Content
 - Total Recyclable Content: 100%



Moisture Resistance:

- > Exposure to an atmosphere of 50°C and 95% relative humidity for 4 days results in less than 0.2% by vol moisture absorption.

Maximum Service Temperature:

- > The maximum temperature to which Acoustic+ should be exposed in service is 150°C.
 - PET (polyethylene terephthalate) is made from 80% recycled materials and unaffected by moisture making it ideal for

Warranty

- > All steel components are backed by a 25 year warranty.
- > Replaceable items are covered by a 10-Year Warranty.

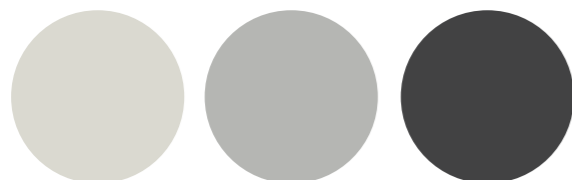


Maintenance

- > Visual inspection for any damage or loose fittings is recommended annually. Report any damage or loose fixings to asset manager or building owner for correction.
- > No certified maintenance is required that affects lifespan or performance of product.

Colour Options

- > Available in three popular Colorbond colour choices.

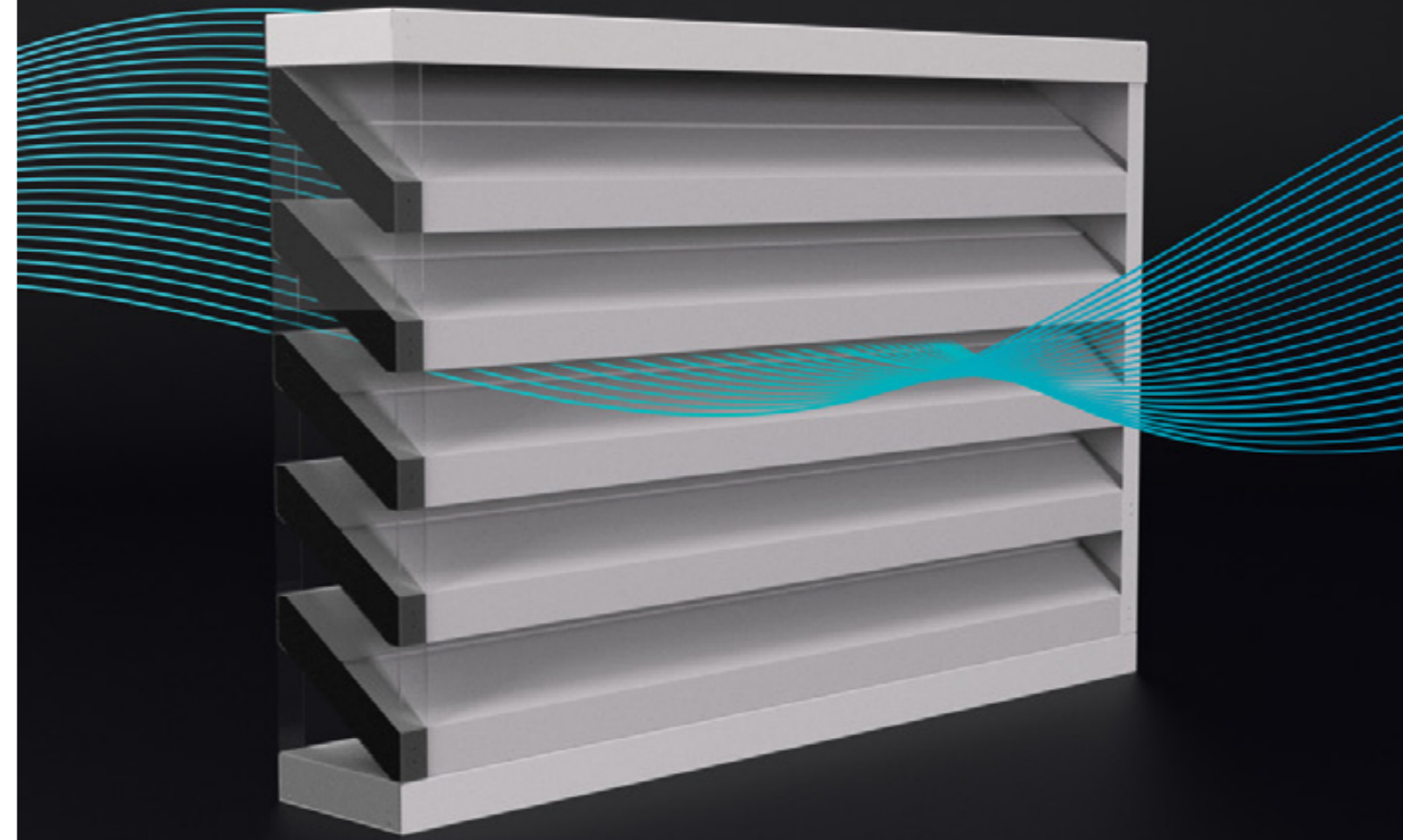


SURF MIST
(Off-white)

SHALE GREY
(Gull-grey)

MONUMENT
(Gun metal grey)

Colorbond[®]



Certification

- > Australian Standards: AS1170.1, AS1170.2, AS1657 & AS1664.1 & Relevant Clauses of the Building Code of Australia
- > Wind loads in accordance with AS/NZS 1170.2, and based on the following parameters: VR,500 = as listed below; and Ms = 1.00, Mt = 1.00, Md, =1.00, and Mz,cat.
- > Wind Loads: Con-form products have been certified for wind regions A, B and C.
 - V500 = 45m/s - Region A - Tc 2.5
 - V500 = 57m/s - Region B - Tc 2.5
 - V500 = 66m/s - Region C - Tc 2.5



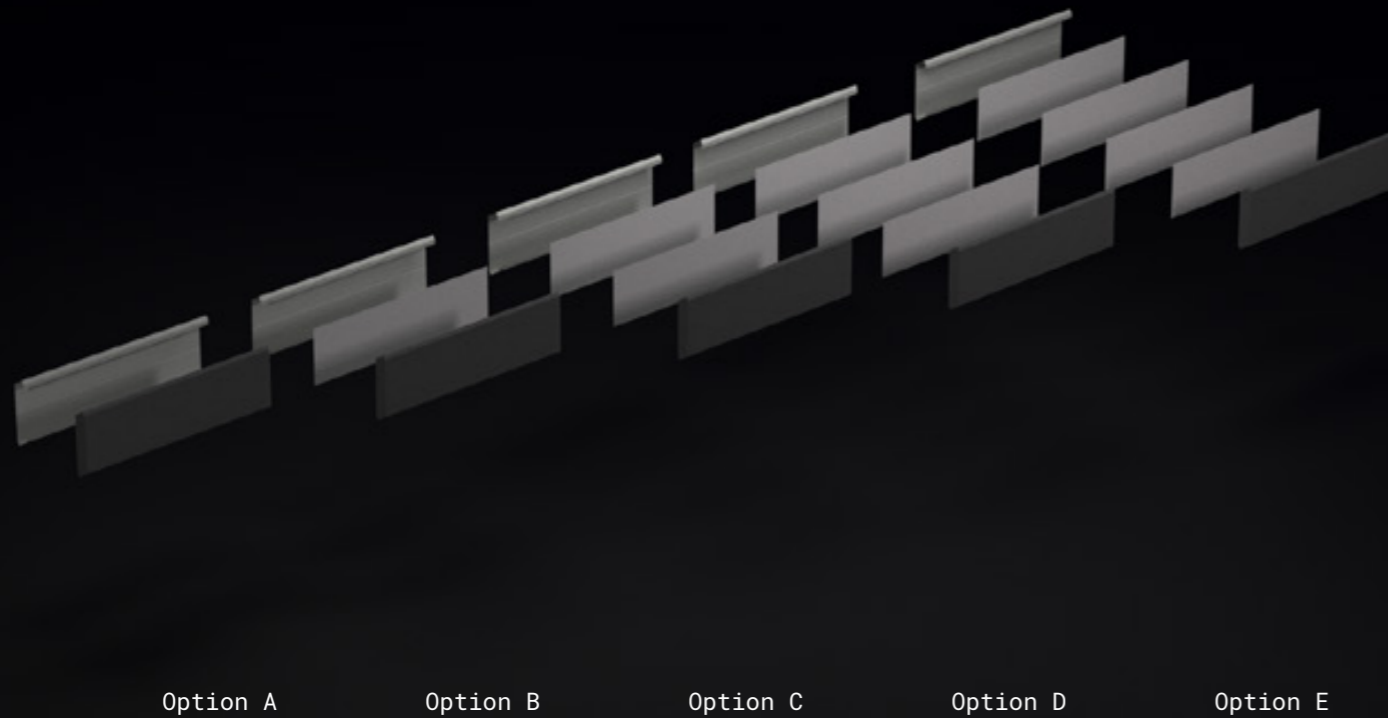
Acoustic+ **UltraBlade**®

Ultra-High Performance Acoustic Louvre Blade

This innovative design ensures effective noise management whilst allowing for all-important ventilation to plant machinery.

The Acoustic+ UltraBlade® is what sets Acoustic+ LouvreWall® apart from all other systems. Its unique three-stage absorb-reflect-absorb mechanism has a class-leading Noise Reduction Coefficient and dramatically reduces unwanted noise.

Designed in collaboration with Acoustic Engineers, the durable steel blades are 'tuneable' with 5 acoustic performance options to suit specific noise conditions at each location.



Option A

Option B

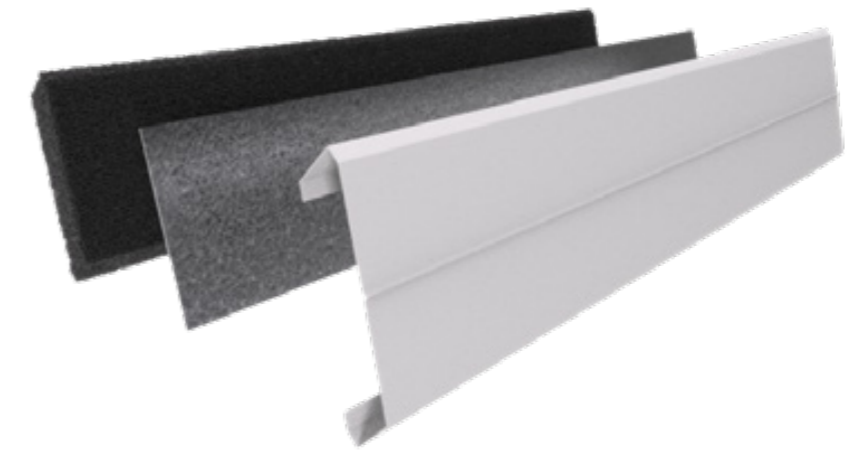
Option C

Option D

Option E

Acoustic Performance

- > Acoustic Performance: Available in five surface density options to suite your site-specific needs:
- > All options have a noise absorbative surface as a standard.
- > Option A = 14.5 kg/m²
- > Option B = 20kg/m²
- > Option C = 25.5kg/m²
- > Option D = 30kg/m²
- > Option E = 36kg/m²
- > NRC (Noise Reduction Coefficient) = 1.05



Technical Data

- > NRC (Noise Reduction Coefficient) = 1.05
- > Rw - Can be produced to suit project requirements
- > Airflow - 200mm Deep - 30% Free Open Area
 - 300mm Deep - 47% Free Open Area
 - 400mm Deep Chevron - 33% Free Open Area
 - 600mm Deep Chevron - 47% Free Open Area
- > 200mm Blade Repeats Typical

Project examples

Mercy Hospital, Werribee, VIC

Acoustic+ LouvreWall© captures unwanted noise with its three-way absorb-reflect-absorb operation. At its core is a polyethylene material made from recycled products. The Louvre was developed for Con-form Group by a team including our engineers and acoustic industry professionals. Acoustic+ LouvreWall© can be tuned to suit the noise output of each individual site



Acoustic+ LouvreWall[®]

Product: 300mm - Option A

PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	CFG-400-160-05	Acoustic+ LouvreWall, Bracket Cover, 1200, A
2	1	CFG-400-223-01	Acoustic+ LouvreWall, Bracket Lower, 1200, A
3	8	CFG-403-040	Acoustic+ LouvreWall, Blade, 1200W, Asm , B
4	1	CFG-403-053-01	Acoustic+ LouvreWall, 1800, Bracket, LH, A
5	1	CFG-403-053-02	Acoustic+ LouvreWall, 1800, Bracket, RH, A

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
A	CREATED	20/06/2024	DW

Design Notes:
 Airflow: 47% Free Open Area
 NRC (Noise Reduction Coefficient) : 0.95
 Acoustic Louvre Full MFG Dim.
 Refer Design: CFG-403-020-01

Material:
 Making it Easy
 19 CORPORATION AVE, BATHURST NSW 2795, info@conformgroup.com.au, 1300 882 490
 Product: **Acoustic+ Louvre, 1200W, 1800H, Asm, C**
 Drawing Title: **CFG-403-053** Sheet: 1 OF 1

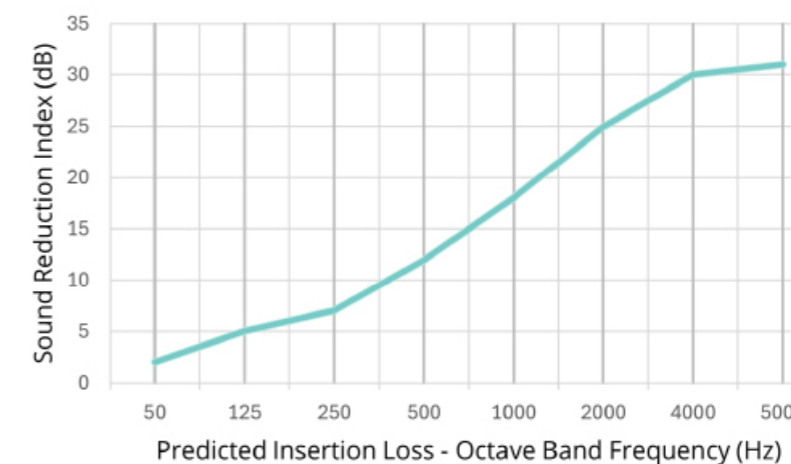
Sound Insulation Prediction

Product: 300mm Acoustic+ LouvreWall (Acoustic Option A)



Product Description: 300mm Deep Acoustic Louvre with Acoustic Option A - Unit Frame 0.95mm Zincalume Steel, Louvre Blades at 200mm Spacing, 0.95mm Zincalume Steel with 75mm Polyester Porous Absorber.
NRC (Noise Reduction Coefficient): 0.95
Airflow: 47% Free Open Area
Density: 14.48 kg/m² (Option A)**
Theoretical calculations carried out by: National Noise & Vibration Pty. Ltd. (ACN 665265814)

Product	Predicted Insertion Loss - Octave Band Frequency (Hz)					
	125 Hz	250Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz
300	5	7	12	18	25	30



*Note values shown are indicative only and based on theoretical simulations.
 ** Other acoustic density options available.

Option A provides an acoustic solution with areal density of 14.5 kg/m². This option includes a noise-absorbent surface as standard and has an NRC of 1.05, making it suitable for environments requiring moderate noise control. Other acoustic density options are available. Please refer to technical information page - Acoustic Performance.

Acoustic+ LouvreWall[®]

Product: 200mm - Option A

PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	CFG-403-054-01	Acoustic+ LouvreWall, 200D, 1800, Bracket, LH, A
2	1	CFG-403-054-02	Acoustic+ LouvreWall, 200D, 1800, Bracket, RH, A
3	1	CFG-403-054-03	Acoustic+ LouvreWall, 200D, Bracket Cover, 1200, A
4	1	CFG-403-054-04	Acoustic+ LouvreWall, 200D, Bracket Lower, 1200, A
5	11	CFG-403-055	Acoustic+ LouvreWall, Blade, 200D, 1200W, Asm, B

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
A	CREATED	08/07/2024	DW

Design Notes:
 Airflow: 33% Free Open Area
 NRC (Noise Reduction Coefficient) : 0.95
 Acoustic Louvre Full MFG Dim.
 Refer Design: CFG-403-020-01

Material:
 Con-form GROUP
 Making it Easy
 19 CORPORATION AVE, BATHURST NSW 2795,
 info@conformgroup.com.au
 1300 882 490

Product: **Acoustic+ Louvre, 200D, 1200W, 1800H, Asm, C**

Drawing Title: **CFG-403-054**

Scale: 1 : 20 REV: A

Sheet: 1 OF 1

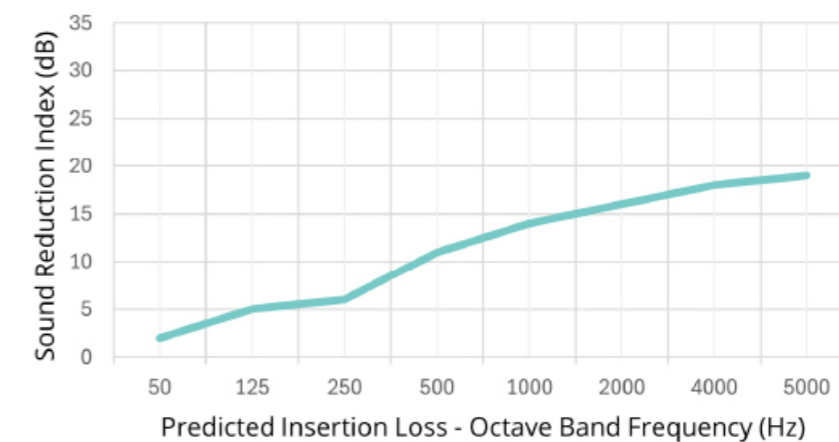
Sound Insulation Prediction

Product: 200mm Acoustic+ LouvreWall (Acoustic Option A)



Product Description: 200mm Deep Acoustic Louvre with Acoustic Option A - Unit Frame 0.95mm Zincalume Steel, Louvre Blades at 200mm Spacing, 0.95mm Zincalume Steel with 75mm Polyester Porous Absorber.
NRC (Noise Reduction Coefficient): 0.95
Airflow: 33% Free Open Area
Density: 14.48 kg/m² (Option A)**
Theoretical calculations carried out by: National Noise & Vibration Pty. Ltd. (ACN 665265814)

Product	Predicted Insertion Loss - Octave Band Frequency (Hz)					
	125 Hz	250Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz
200	5	6	11	14	16	18



*Note values shown are indicative only and based on theoretical simulations.

** Other acoustic density options available.

Option A provides an acoustic solution with areal density of 14.5 kg/m². This option includes a noise-absorbent surface as standard and has an NRC of 1.05, making it suitable for environments requiring moderate noise control. Other acoustic density options are available. Please refer to technical information page - Acoustic Performance.

Acoustic+ LouvreWall[®]

Product: 400mm Chevron - Option A

PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	CFG-403-054	Acoustic+ Louvre, 200D, 1200W, 1800H, Asm, C
2	2	CFG-700-128	VHB Tape, 1800mm, A

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
A	CREATED	08/07/2024	DW

Design Notes:

Airflow: 33% Free Open Area
 NRC (Noise Reduction Coefficient) : 0.95
 Acoustic Louvre Full MFG Dim.
 Refer Design: CFG-403-020-01

Material:

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 19 CORPORATION AVE, BATHURST NSW 2795,
 info@conformgroup.com.au
 1300 882 490

Product: **Acoustic+ Louvre, 400D, 1200W, 1800H, Asm, C**

Drawing Title: **CFG-403-057**

Sheet: 1 OF 1

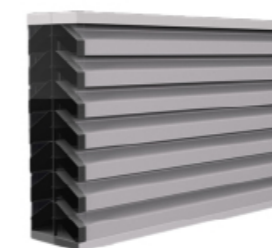
Scale: 1 : 20 REV: A

ALL DIMS. GIVEN IN MM

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Sound Insulation Prediction

Product: 400mm Chevron Acoustic+ LouvreWall (Acoustic Option A)



Product Description: 400mm Deep Chevron Acoustic Louvre with Acoustic Option A - Unit Frame 0.95mm Zincalume Steel, Louvre Blades at 200mm Spacing, 0.95mm Zincalume Steel with 75mm Polyester Porous Absorber.

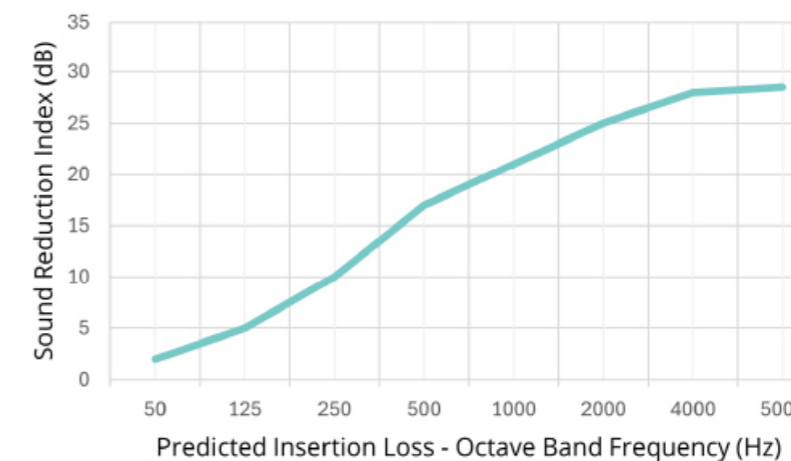
NRC (Noise Reduction Coefficient): 0.95

Airflow: 33% Free Open Area

Density: 14.48 kg/m² (Option A)**

Theoretical calculations carried out by: National Noise & Vibration Pty. Ltd. (ACN 665265814)

Product	Predicted Insertion Loss - Octave Band Frequency (Hz)					
	125 Hz	250Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz
400/Chevron	5	10	17	21	25	28



*Note values shown are indicative only and based on theoretical simulations.

** Other acoustic density options available.



Option A provides an acoustic solution with areal density of 14.5 kg/m². This option includes a noise-absorbent surface as standard and has an NRC of 1.05, making it suitable for environments requiring moderate noise control. Other acoustic density options are available. Please refer to technical information page - Acoustic Performance.

Acoustic+ LouvreWall[®]

Product: 600mm Chevron - Option A

PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	CFG-403-053	Acoustic+ Louvre, 1200W, 1800H, Asm, C
2	2	CFG-700-128	VHB Tape, 1800mm, A

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
A	CREATED	08/07/2024	DW

Design Notes:

Airflow: 47% Free Open Area
 NRC (Noise Reduction Coefficient) : 0.95
 Acoustic Louvre Full MFG Dim.
 Refer Design: CFG-403-020-01

Material:

Con-form GROUP
 Making it Easy
 19 CORPORATION AVE, BATHURST NSW 2795,
 info@conformgroup.com.au
 1300 882 490

Product: **Acoustic+ Louvre, 600D, 1200W, 1800H, Asm, C**

Drawing Title: **CFG-403-058** Sheet: 1 OF 1

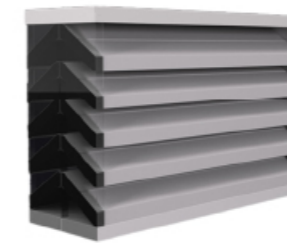
Scale: 1 : 20 REV: A

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Option A provides an acoustic solution with areal density of 14.5 kg/m². This option includes a noise-absorbent surface as standard and has an NRC of 1.05, making it suitable for environments requiring moderate noise control. Other acoustic density options are available. Please refer to technical information page - Acoustic Performance.

Sound Insulation Prediction

Product: 600mm Chevron Acoustic+ LouvreWall (Acoustic Option A)



Product Description: 600mm Deep Chevron Acoustic Louvre with Acoustic Option A - Unit Frame 0.95mm Zincalume Steel, Louvre Blades at 200mm Spacing, 0.95mm Zincalume Steel with 75mm Polyester Porous Absorber.

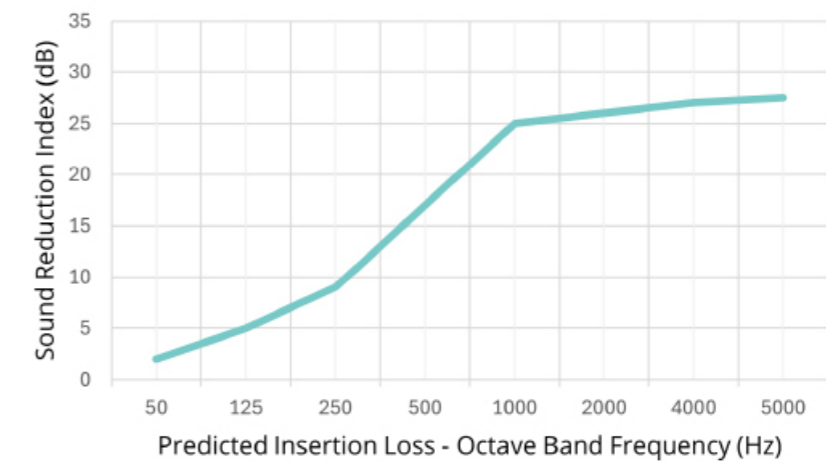
NRC (Noise Reduction Coefficient): 0.95

Airflow: 33% Free Open Area

Density: 14.48 kg/m² (Option A)**

Theoretical calculations carried out by: National Noise & Vibration Pty. Ltd. (ACN 665265814)

Product	Predicted Insertion Loss - Octave Band Frequency (Hz)					
	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz
600/Chevron	5	9	17	25	26	27



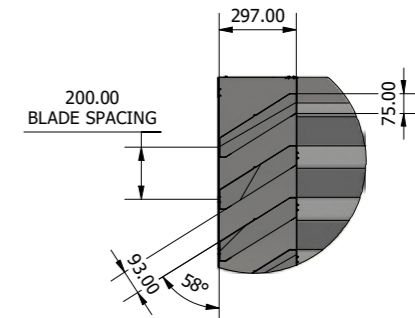
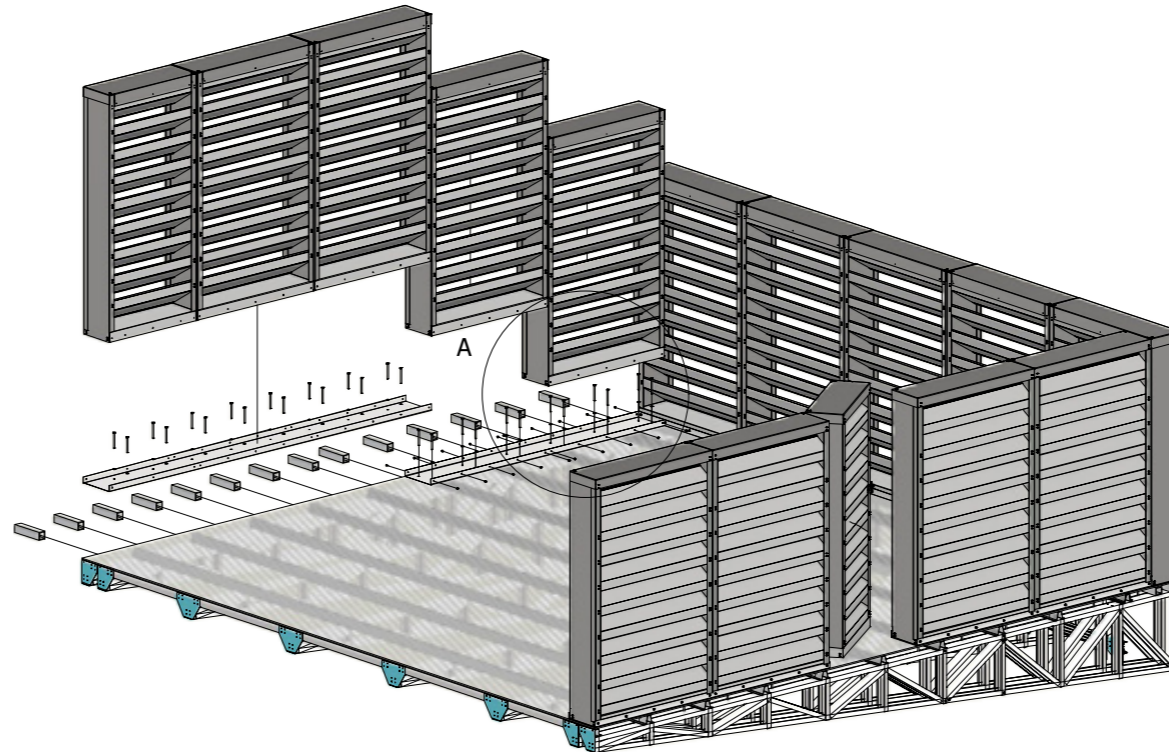
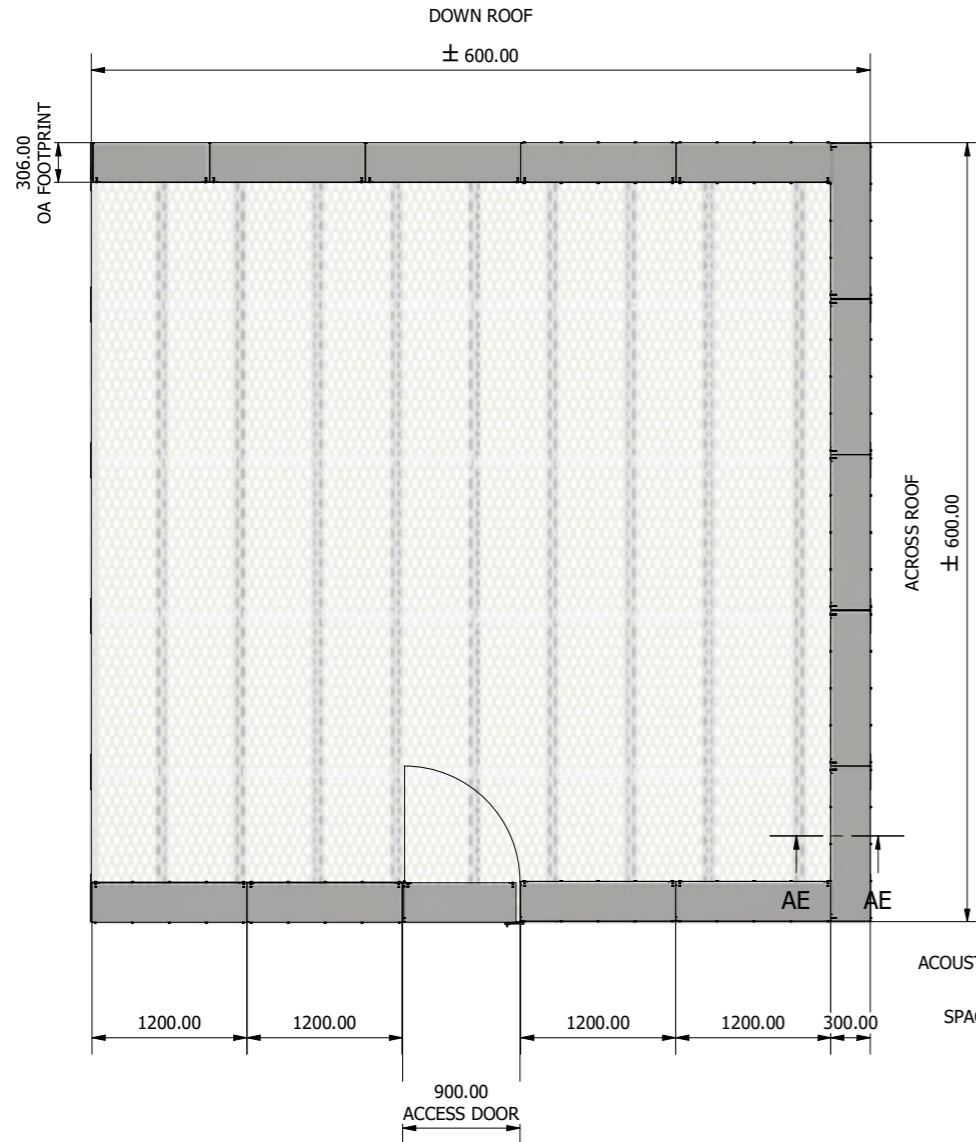
*Note values shown are indicative only and based on theoretical simulations.

** Other acoustic density options available.



PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	CFG-102	Easy Mech, MR, A
2	1	CFG-400-237	EasyScreen, Classic Louvre Screen, Asm, B

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
A		02/12/2024	DW



D (1 : 20)
ACOUSTIC LOUVRE
DETAIL (300.00MM BLADE SHOWN)

Design Notes:

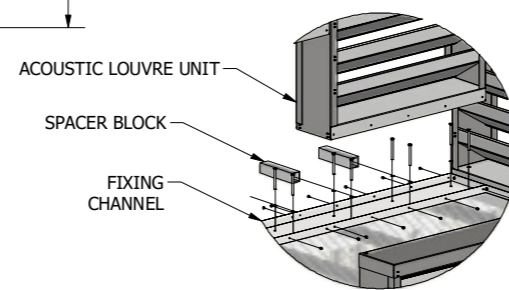
Relevant Products
 - Acoustic+ Louvre Screening System
 - Classic Screen System

Standard Screen & Frame Height:

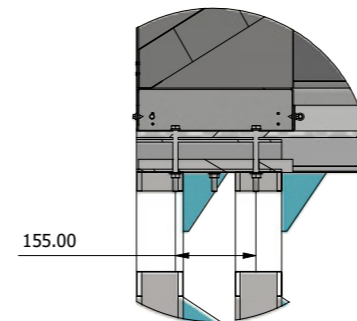
- a) 1200MM
- b) 1600MM
- c) 1800MM
- d) 2000MM (Shown)
- e) 2400MM

Note:
 (Refer to CFG-400-237 for Screen Framing Details)
 (Refer to CFG-400-003 for Post Brace Details)

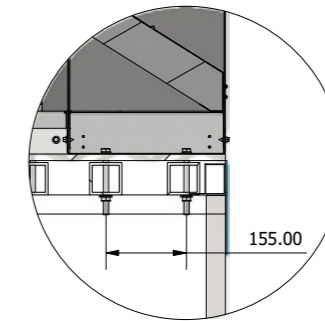
Acoustic+ Louvre Blade options include
 Option A, Option B, Option C, Option D,
 Option E



A (1 : 30)
ACOUSTIC LOUVRE
FIXING DETAIL



B (1 : 10)
DOWN ROOF TO PLATFORM
FIXING DETAIL



AE (1 : 10)
ACROSS ROOF TO PLATFORM
FIXING DETAIL

Design Certification

The following review has been carried out in accordance with the following SAI Codes of Practice:

AS 1657 Fixed Platforms, Walkways, Stairways and Ladders Code

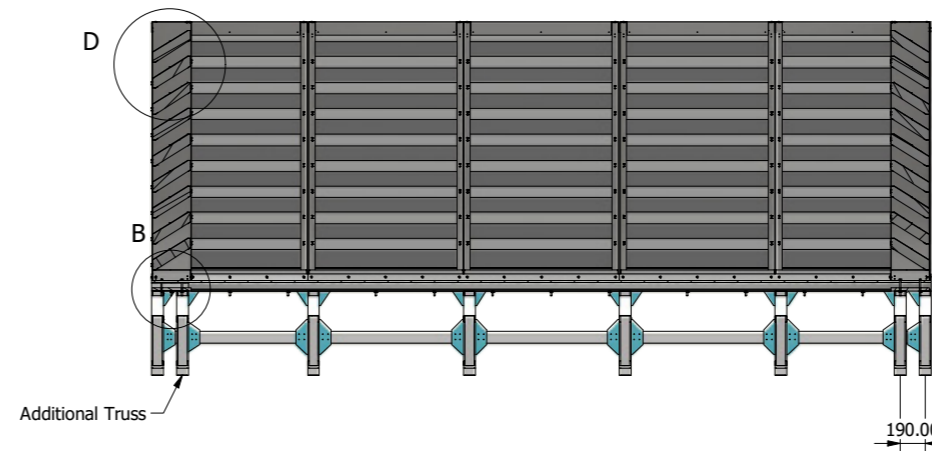
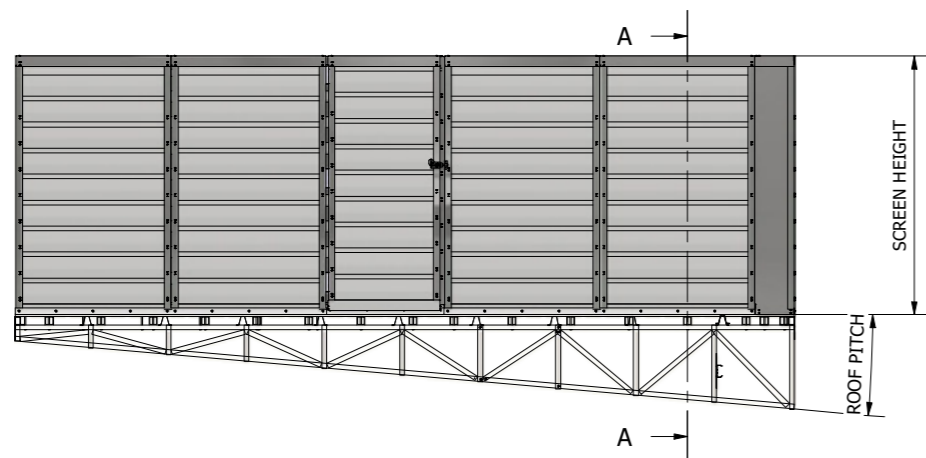
AS 1170 Structural Design Actions Code (Parts 0, 1, and 2)

AS 4600 Cold-formed Steel Structures Structure Importance level 2 (normal structure), in accordance with the BCA;

Super-imposed dead load
 to platforms = 0.20kPa

Assembly Materials

- Screen:** 1.9mm, Fixing Channel: Alum 6063
- Acoustic Louvre Blades:** 0.95mm, G300, AZ150, Prepainted Steel
- Acoustic Panelling:** 25mm Polyester Acoustic Batt
- Sound Attenuator:** 0.8mm Galvanized Steel



A-A (1 : 40)

19 CORPORATION AVE, BATHURST NSW 2795.
 info@conformgroup.com.au
 1300 882 490

ALL DIMS. GIVEN IN MM

Scale: 1 : 40

REV: A

Product Easy Mech, MR, Acoustic Louvre, ASM, A	Sheet
Drawing Title CFG-194	1 OF 1

Project examples

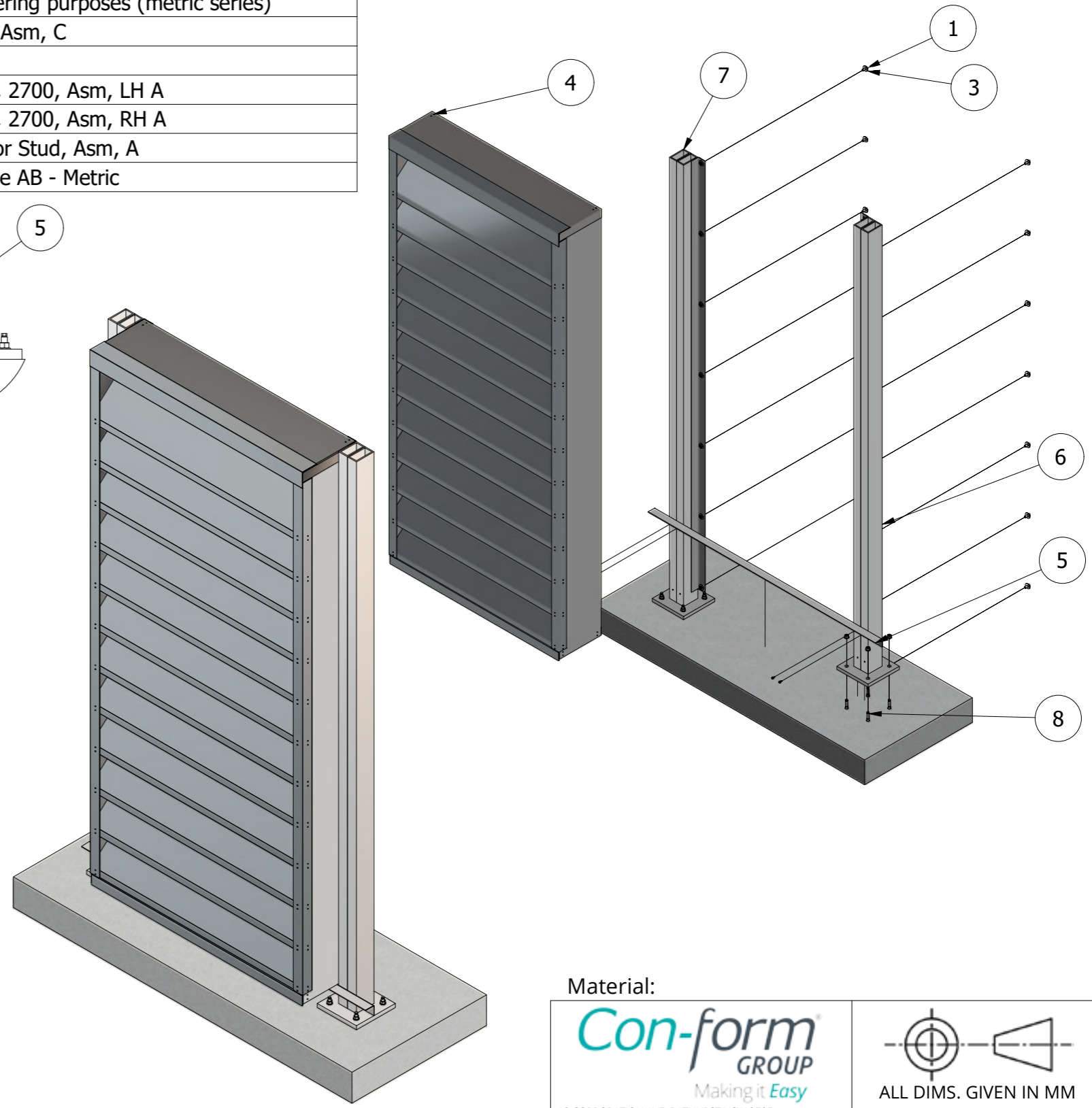
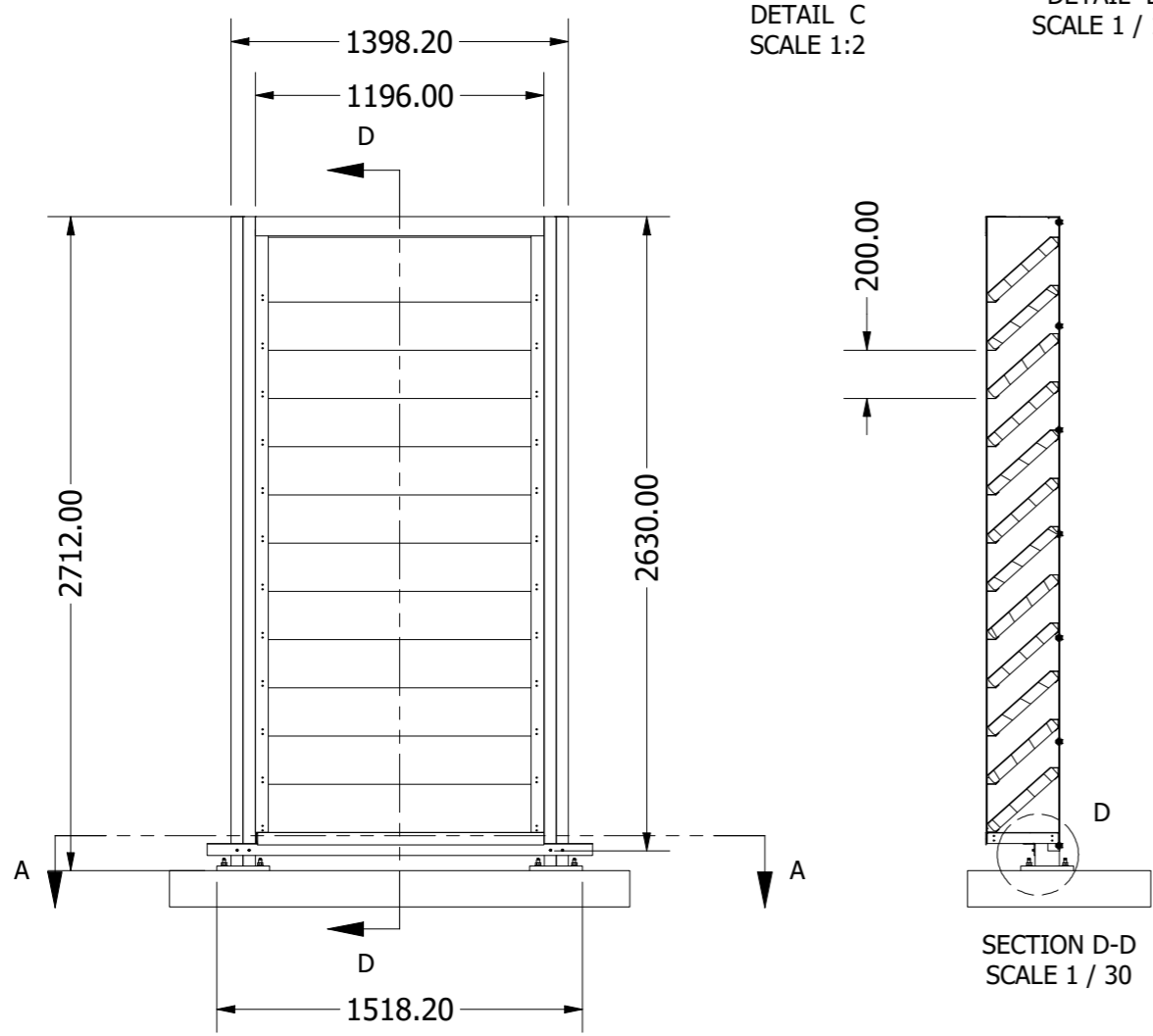
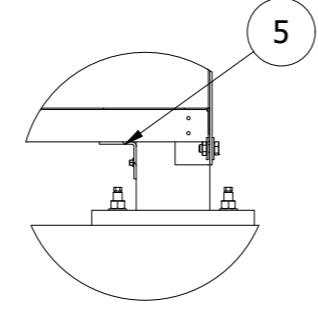
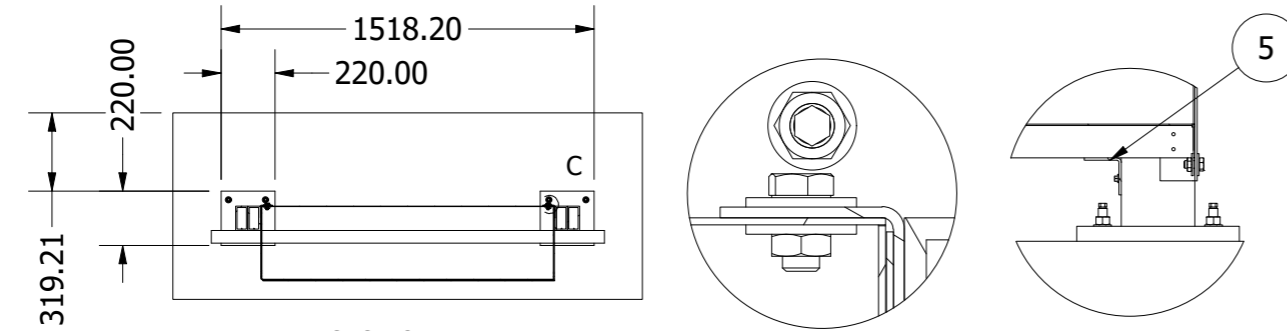
Versatile system options

We can install all screen solutions (including Acoustic and Louvre Walls), direct to metal and concrete roof membranes.



PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	14	AS 1110 - M10 x 20	ISO metric hexagon precision bolts and screws
2	14	AS 1112 - M10	ISO metric hexagon nuts, including thin nuts, slotted nuts and castle nuts
3	28	AS 1237 - 10 mm	Flat metal washers for general engineering purposes (metric series)
4	1	CFG-400-267	Easy Screen, Acoustic+ Louvre, 2700, Asm, C
5	1	CFG-400-267-04	Acoustic+ LouvreWall, 2700, Shelf, A
6	1	CFG-400-270	Acoustic+ Louvre, CR, Post Weldment, 2700, Asm, LH A
7	1	CFG-400-271	Acoustic+ Louvre, CR, Post Weldment, 2700, Asm, RH A
8	8	CFG-600-069	Ramset M12 x 160mm ChemSet Anchor Stud, Asm, A
9	4	IFI 502 - 5.5x1.8 x 13, HFHTSTAM	Hex Flange Head Tapping Screw - Type AB - Metric

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
A	CREATED	4/03/2024	DW
B	Updated Design	3/04/2024	DW



Material:

Making it *Easy*

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info@conformgroup.com.au
1300 882 490

Product
Easy Screen, Acoustic+ LouvreWall, CR, 2700, 1200 Wide, Asm,

Drawing Title
CFG-400-274

ALL DIMS. GIVEN IN MM

Scale: 1 / 30 REV: A

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