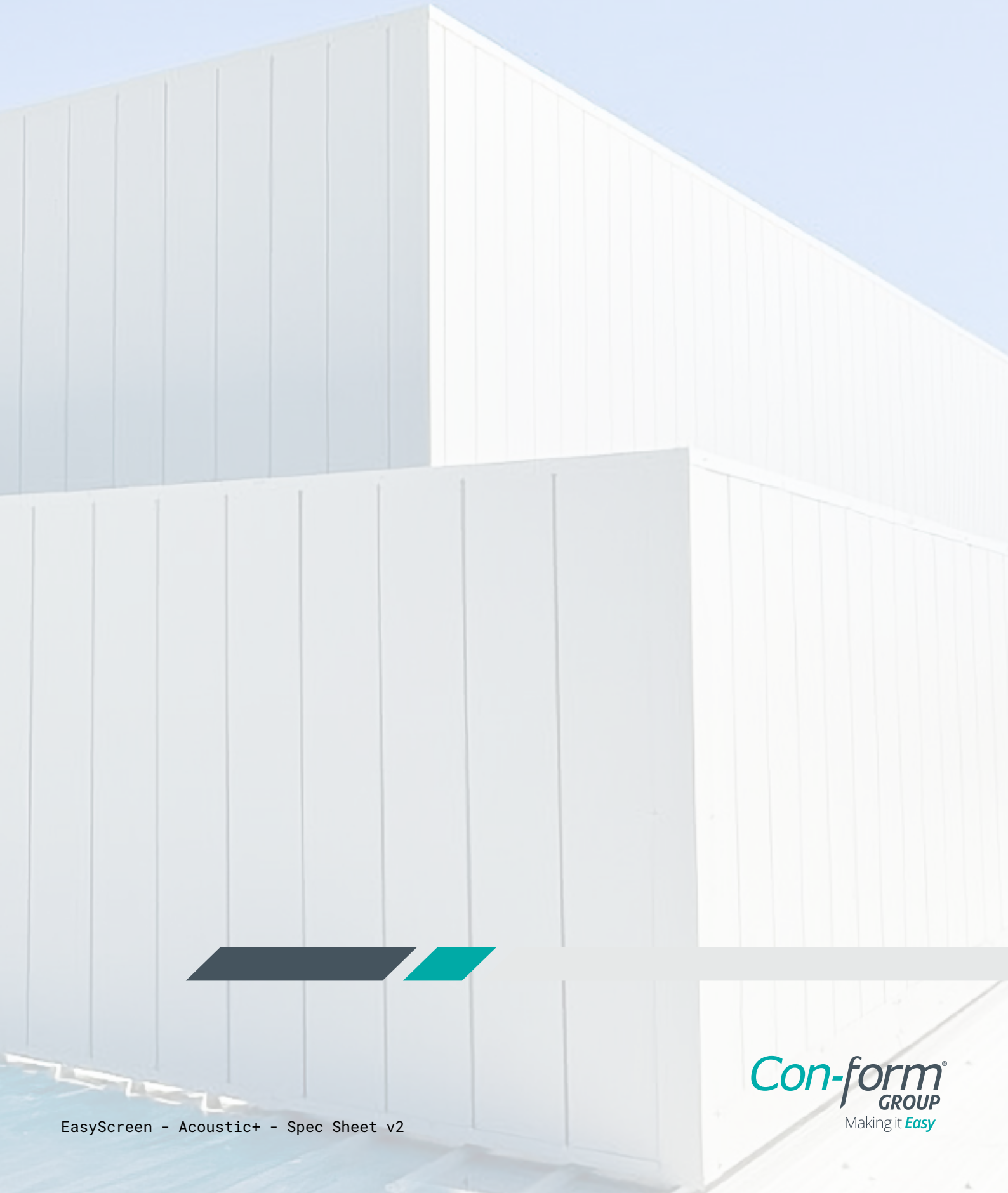
Acoustic+ **Wall©**

Product Specification Sheet



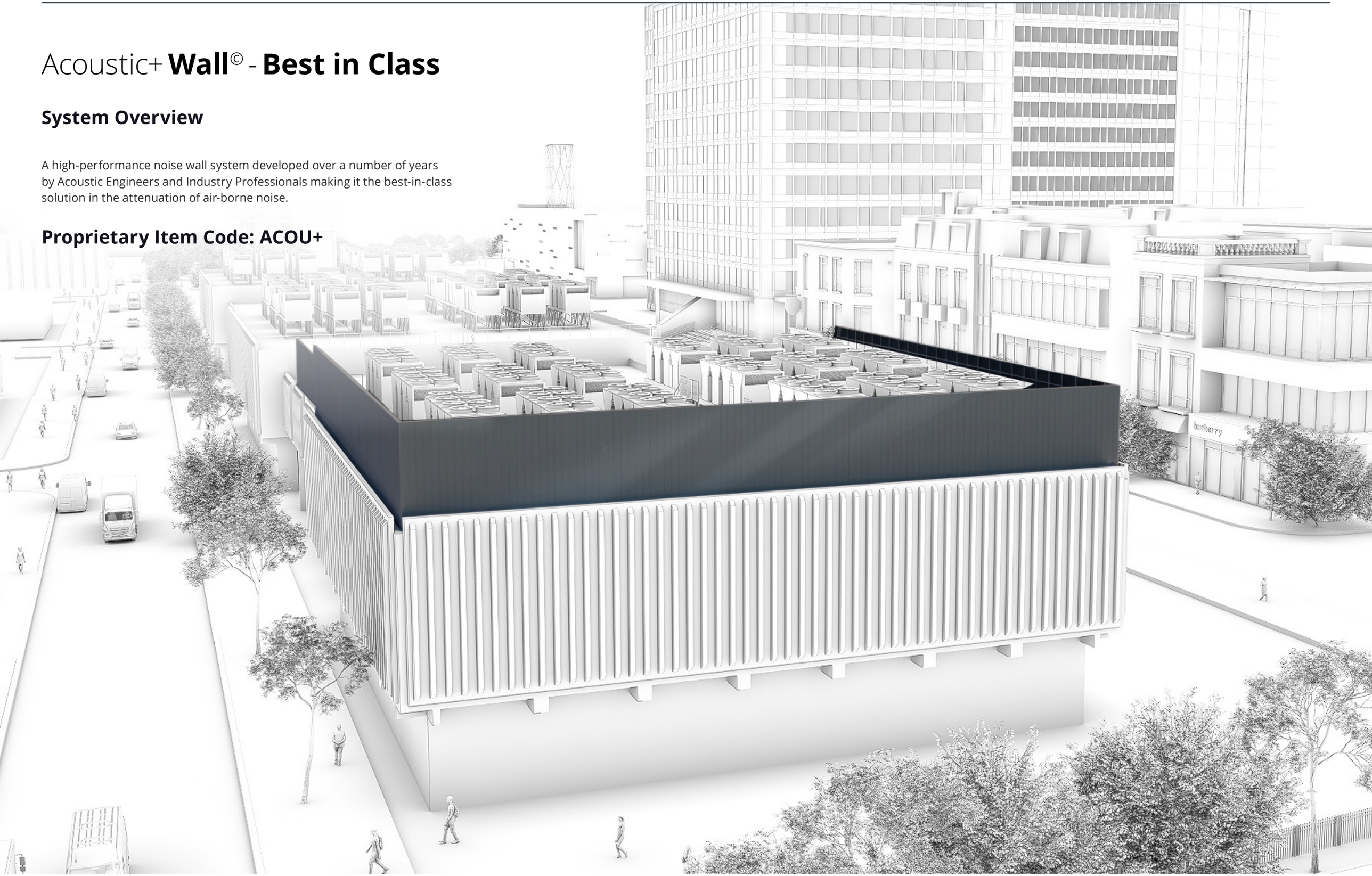
Con-form® GROUP
Making it Easy

Acoustic+ **Wall©** - **Best in Class**

System Overview

A high-performance noise wall system developed over a number of years by Acoustic Engineers and Industry Professionals making it the best-in-class solution in the attenuation of air-borne noise.

Proprietary Item Code: ACOU+

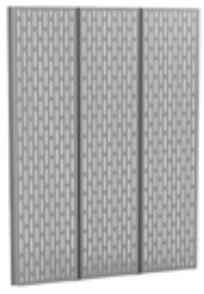


EasyScreen **Range**©

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+ **Wall©**

Applications and Advantages

- Large format stores – Shopping Centres - Supermarkets
- Large condenser platform screening.
- General architectural screening.
- Compressor enclosures and screening.
- Other mechanical plant equipment enclosures.
- Acoustic+ is Australia's leading external acoustic wall system in performance, design and value.
- Con-form Group's most effective system at reducing sound energy due to its three phase operation (absorbing - reflecting - absorbing).
- Non-invasive - perfect to retrofit.
- 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

- Weight's vary depending on selected screen solution.
- Heights include 1200mm, 1600mm, 2000mm 2400mm (custom heights also available).
- Our screening solutions can be sized to suit any plant equipment allowing sufficient area around the units for access (available in any length to suit your needs).
- Standard Heights: 1200mm, 1600mm, 2000mm, & 2400mm

Fire Resistance:

- Tested to AS ISO 9705 Corner Burn in accordance with AS 5637.1.
  Variations up to 75mm = Group 1-S SMOGRA not more than 100m2 /s2 x 1000.
    - Ignitability Index: 0
    - Spread of Flame Index: 0
    - Heat Evolved: 0
    - Smoke Developed Index: 0 – 3

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 = 7 kg/m2
- Option B = 13kg/m2
- Option C = 19kg/m2
- Option D = 25kg/m2
- Option E = 31kg/m2
- NRC (Noise Reduction Coefficient) = 0.75

Acoustic+ **Wall©**

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 my 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.

25 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 effects lifespan or performance of product.

Colour Options

> Available in three popular Colorbond colour choices.

Colorbond

SURF MIST (Off-white) | **SHALE GREY** *(Gull-grey)* | **MONUMENT** *(Gun metal grey)*

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

Project examples

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

Acoustic+© Model Performance Tests

michael phillipsacoustics

Product Codes: Option A, Option B, Option C, Option D, Option E

Product Description: Outdoor acoustic barrier consisting of:

0.55 custom sheet metal

0.8mm galvanised steel

25mm polyester absorber

Date of Report: 24th May 2022

Prepared for: Con-form Group

Calculations by: Michael Phillips Acoustics

Report by: Michael Phillips Acoustics

Notes: Theoretical predictions have been conducted utilising INSUL, STRUTT, in house testing, general available information and experience in acoustical product performances, research and development. Further, theoretical predictions are not a substitute for actual test data and results can vary, as can testing conducted in different laboratories.

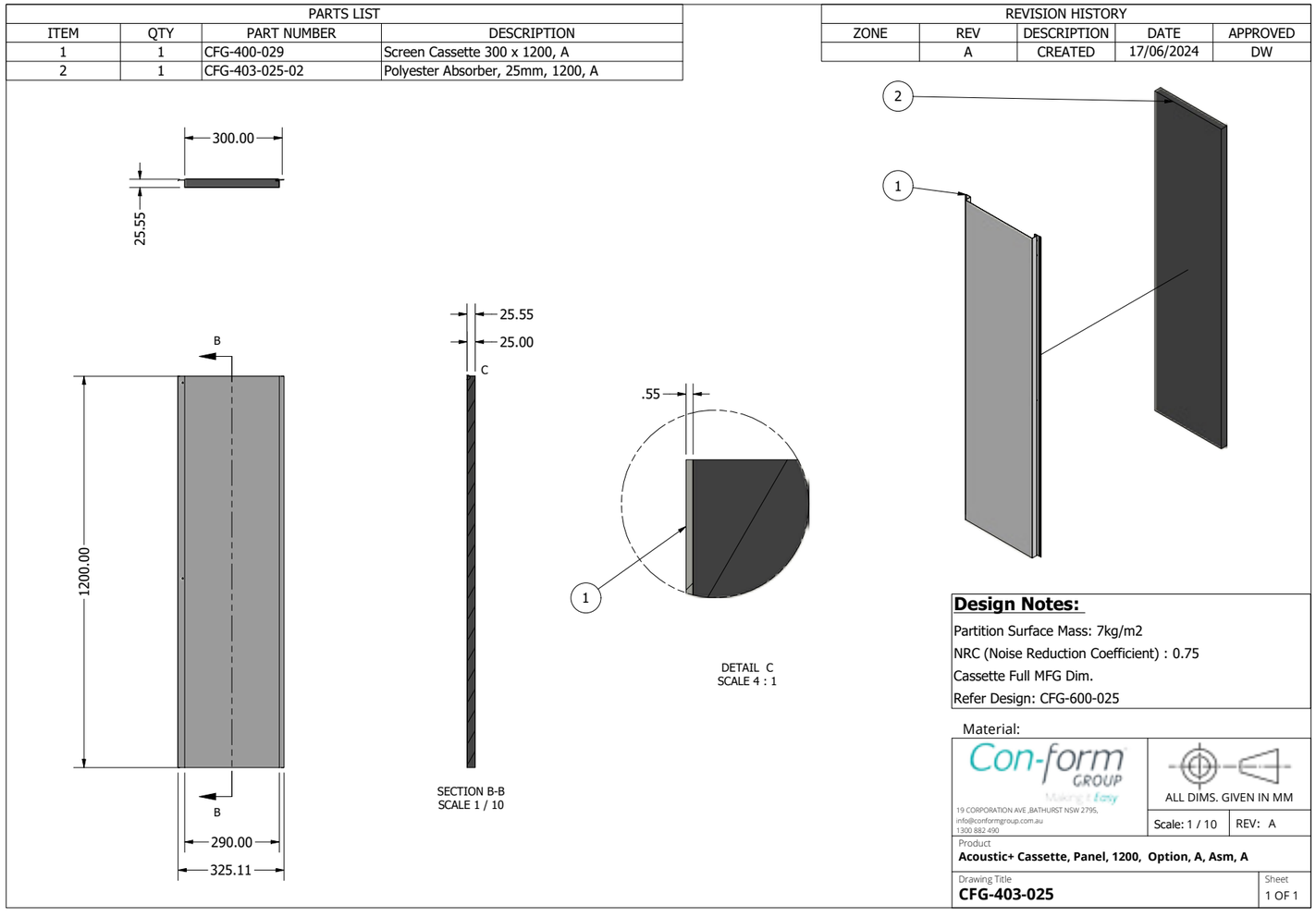
Sincerely

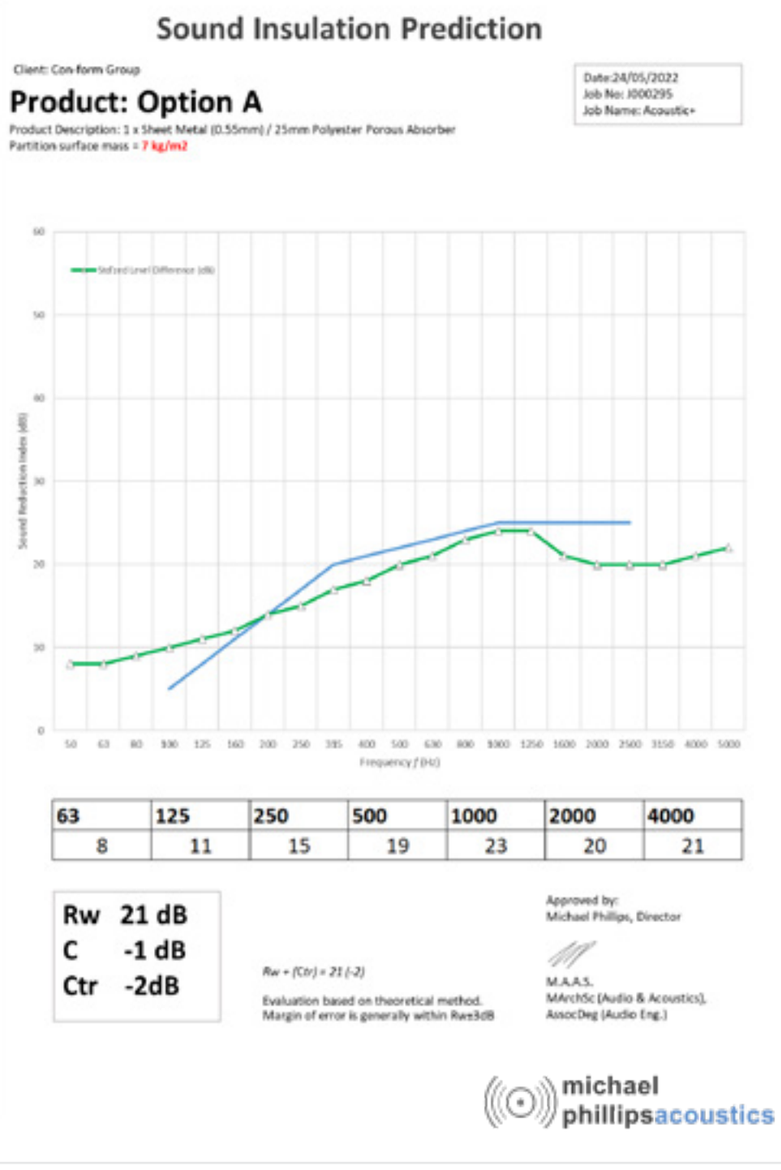
Michael Phillips

Acoustic Engineering Director
M.A.A.S.
MArchSc (Audio & Acoustics), AssocDeg (Audio Eng.) P 0413 904 997
E michael@mpacoustics.com.au
W www.mpacoustics.com.au

Acoustic+ **Wall©**

Product Option A





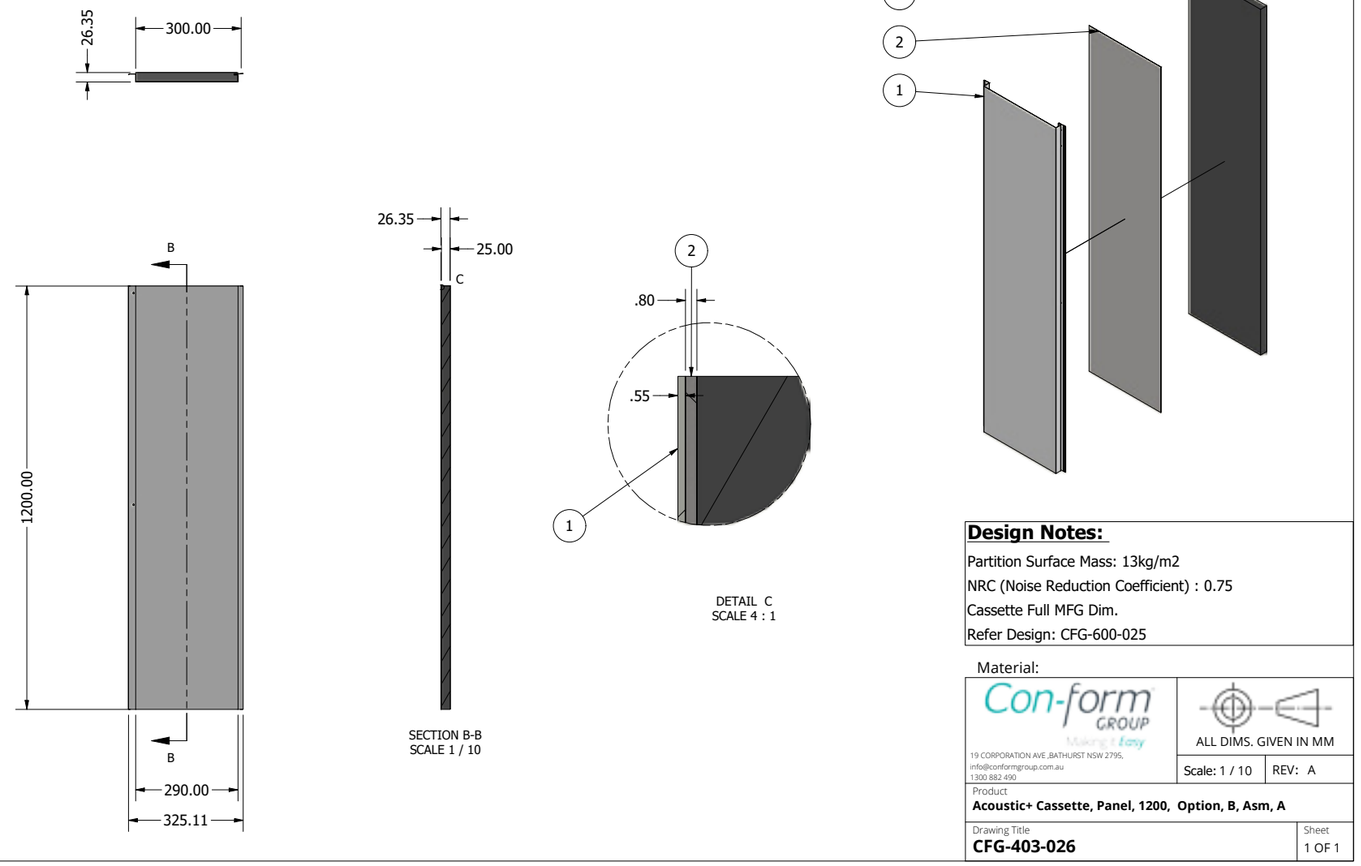
Option A provides an acoustic solution with a surface density of 7 kg/m². This option includes a noise-absorbent surface as standard and has an NRC of 0.75, making it suitable for environments requiring moderate noise control.

Acoustic+ **Wall©**

Product Option B

PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	CFG-400-029	Screen Cassette 300 x 1200, A
2	1	CFG-403-025-01	Sound Attenuator, 0.8mm Steel, 1200, A
3	1	CFG-403-025-02	Polyester Absorber, 25mm, 1200, A

REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	A	CREATED	17/06/2024	DW



Design Notes:

Partition Surface Mass: 13kg/m2
NRC (Noise Reduction Coefficient) : 0.75
Cassette Full MFG Dim.
Refer Design: CFG-600-025

Material:

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

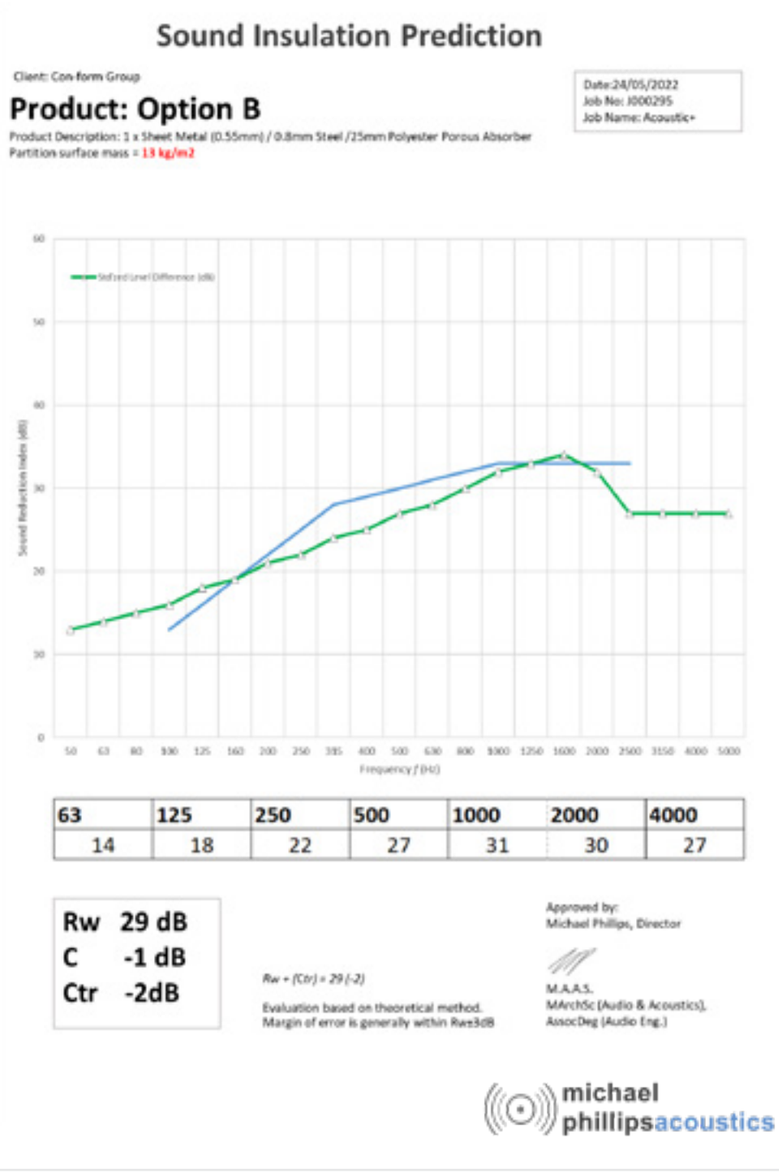
ALL DIMS. GIVEN IN MM

Scale: 1 / 10 | REV: A

Product
Acoustic+ Cassette, Panel, 1200, Option, B, Asm, A

Drawing Title
CFG-403-026

Sheet
1 OF 1



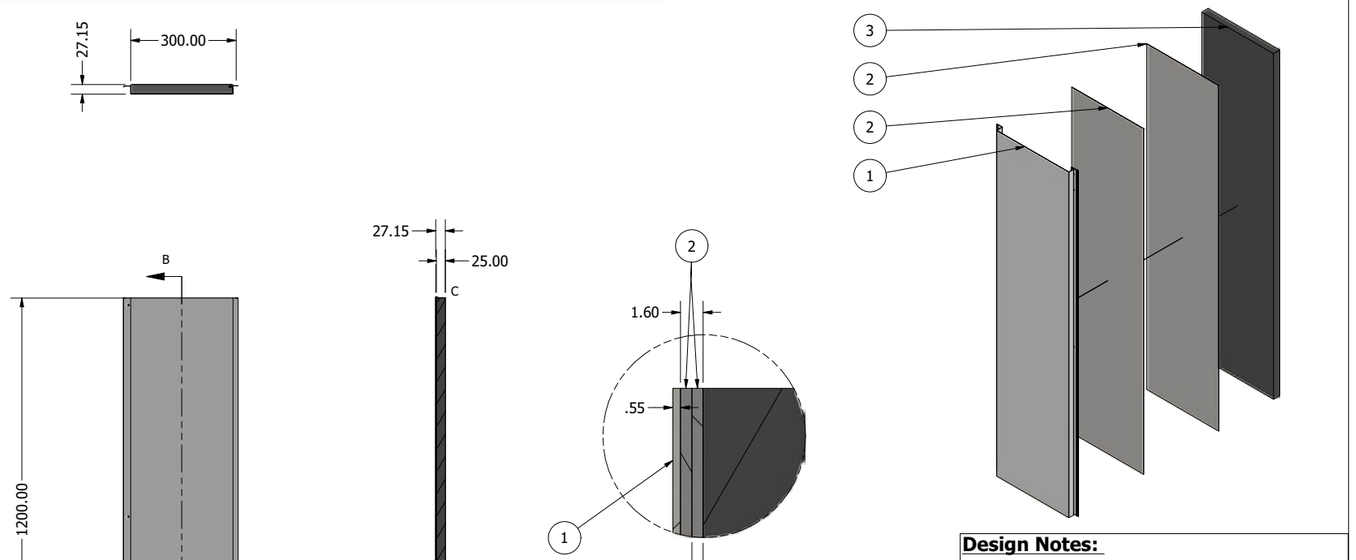
Option B features a surface density of 13 kg/m², offering enhanced acoustic performance. It includes a standard noise-absorbent surface and an NRC of 0.75, making it ideal for spaces needing greater noise reduction.

Acoustic+ **Wall©**

Product Option C

PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	CFG-400-029	Screen Cassette 300 x 1200, A
2	2	CFG-403-025-01	Sound Attenuator, 0.8mm Steel, 1200, A
3	1	CFG-403-025-02	Polyester Absorber, 25mm, 1200, A

REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	A	CREATED	17/06/2024	DW



Design Notes:

Partition Surface Mass: 19kg/m2
NRC (Noise Reduction Coefficient) : 0.75
Cassette Full MFG Dim.
Refer Design: CFG-600-025

Material:

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

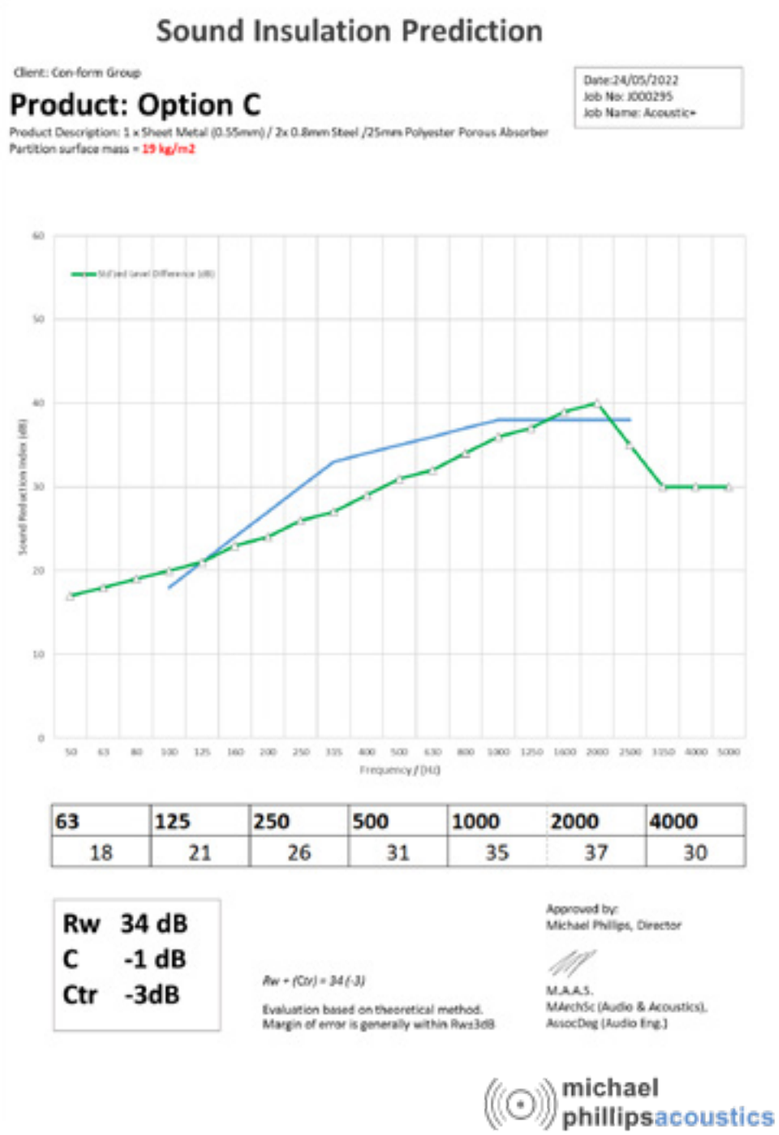
ALL DIMS. GIVEN IN MM

Scale: 1 / 10 | REV: A

Product
Acoustic+ Cassette, Panel, 1200, Option, C, Asm, A

Drawing Title
CFG-403-027

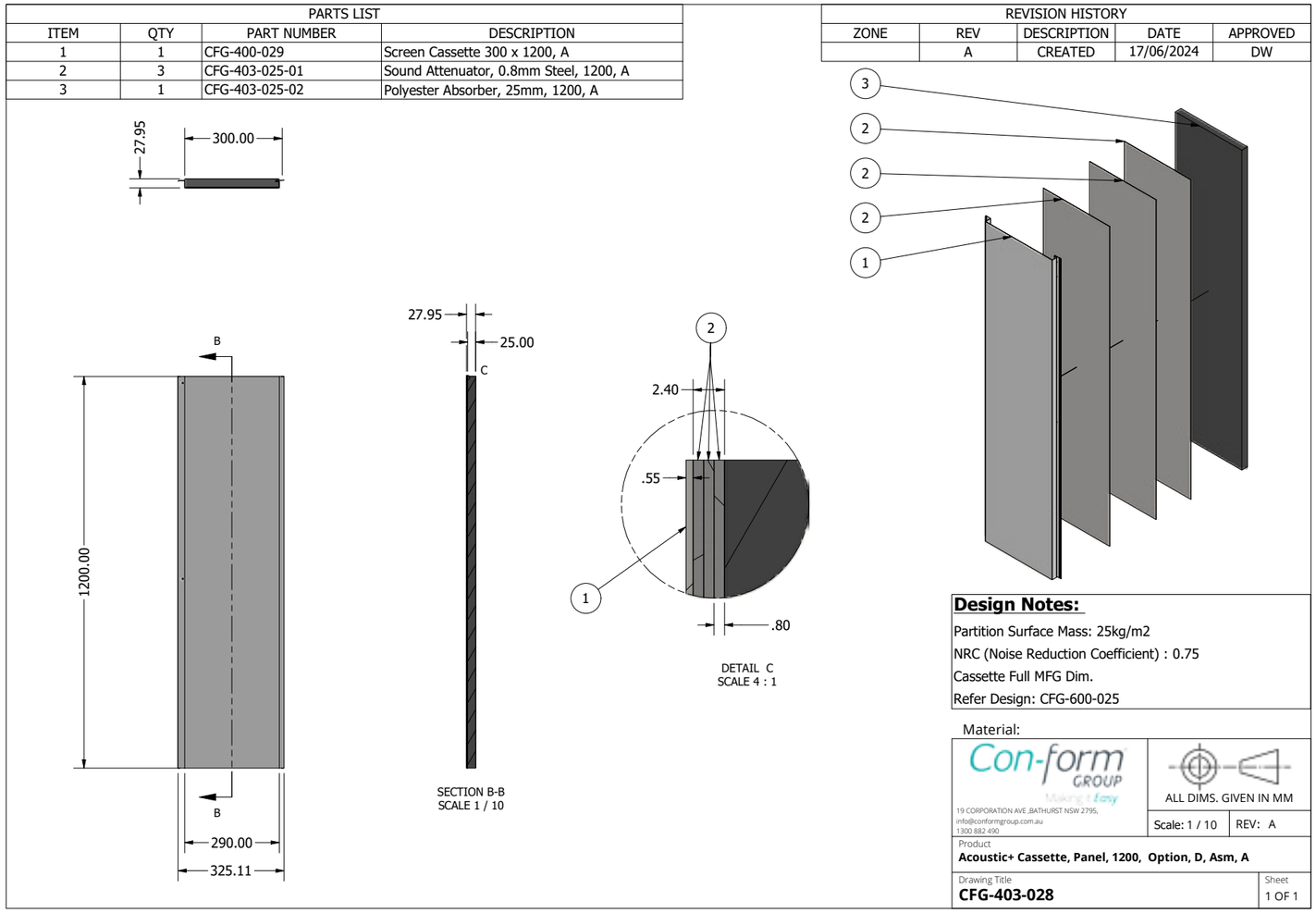
Sheet
1 OF 1

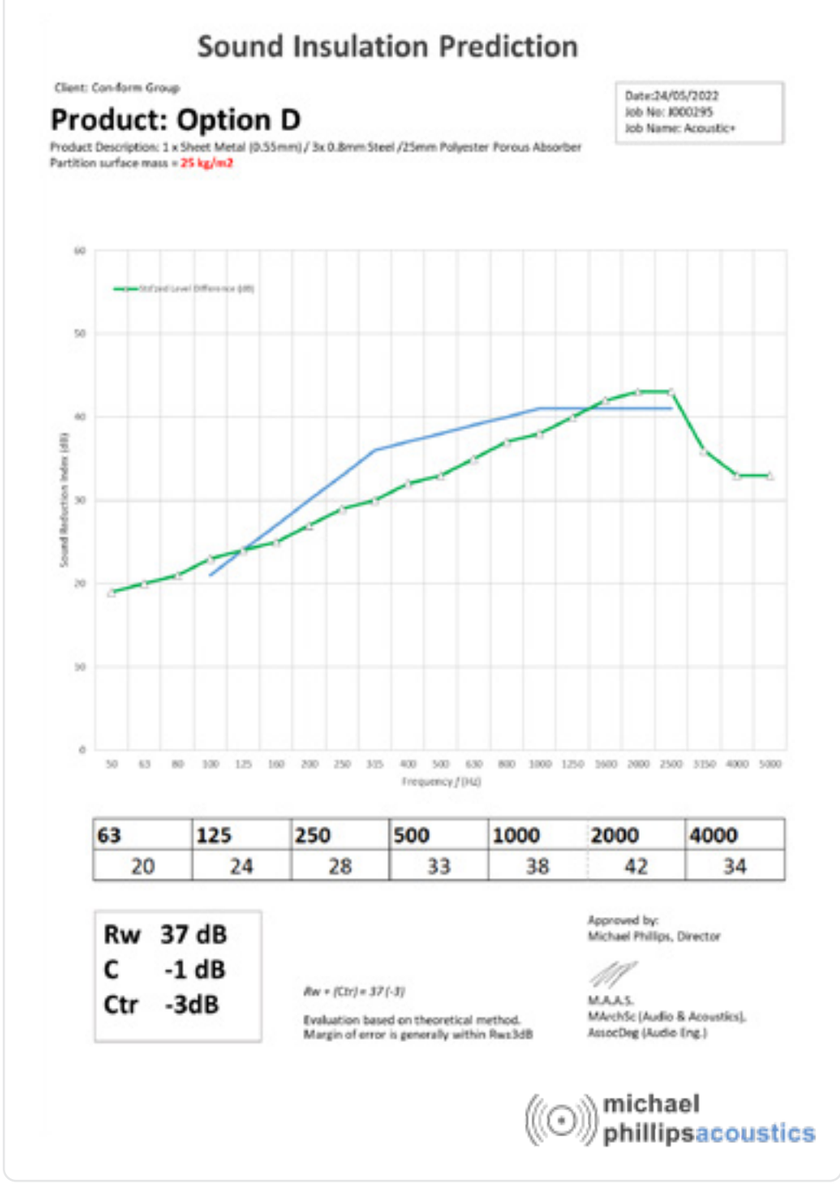


With a surface density of 19 kg/m², Option C is designed for advanced acoustic management. It includes a standard noise-absorbent surface and an NRC of 0.75, ensuring optimal sound absorption for areas demanding higher levels of noise control.

Acoustic+ **Wall©**

Product Option D





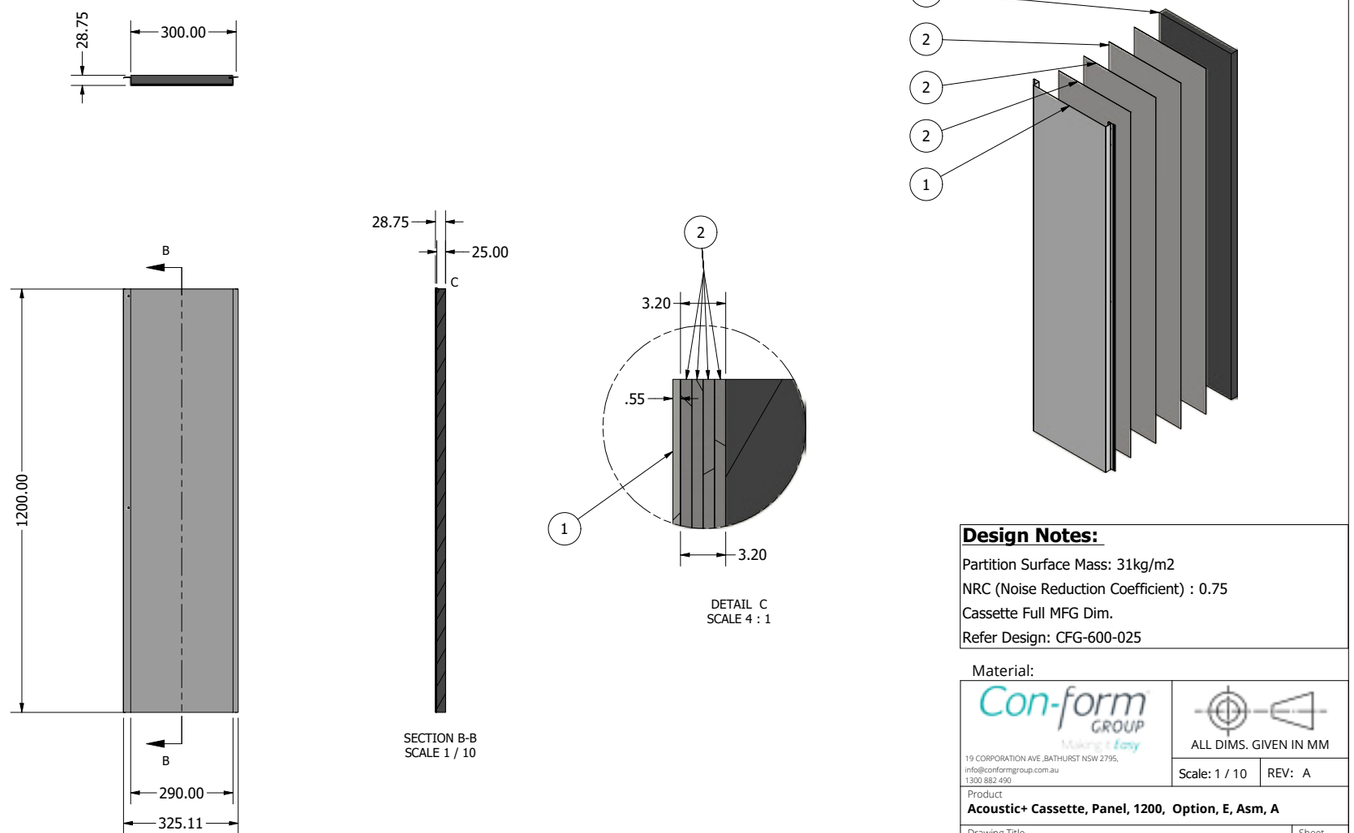
Option D offers a surface density of 25 kg/m², providing robust noise reduction for high-noise environments. It features a standard noise-absorbent surface and an NRC of 0.75, delivering premium acoustic performance.

Acoustic+ **Wall©**

Product Option E

PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	CFG-400-029	Screen Cassette 300 x 1200, A
2	4	CFG-403-025-01	Sound Attenuator, 0.8mm Steel, 1200, A
3	1	CFG-403-025-02	Polyester Absorber, 25mm, 1200, A

REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	A	CREATED	17/06/2024	DW



Design Notes:

Partition Surface Mass: 31kg/m2
NRC (Noise Reduction Coefficient) : 0.75
Cassette Full MFG Dim.
Refer Design: CFG-600-025

Material:

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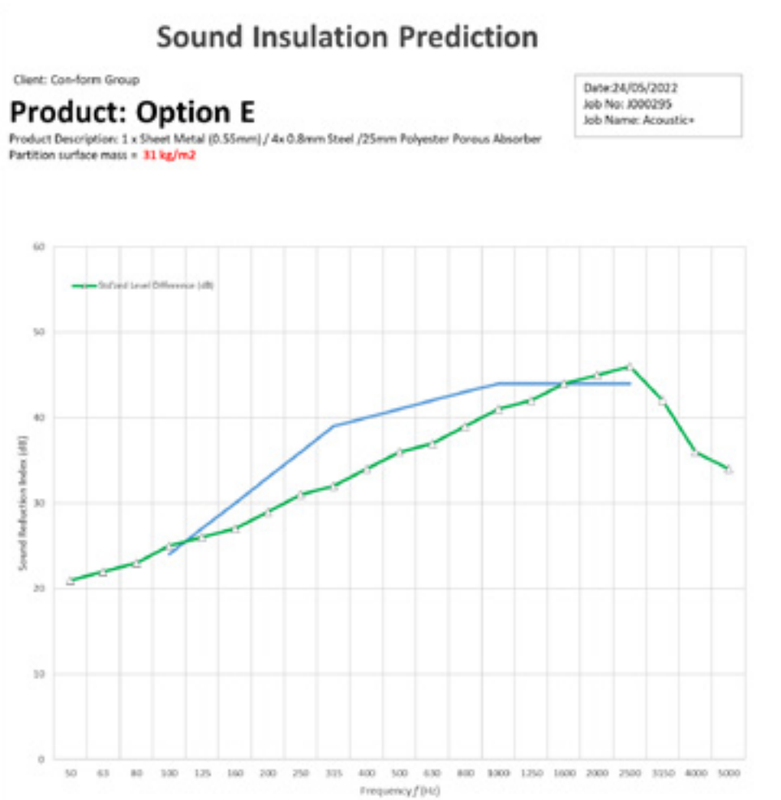
19 CORPORATION AVE ,BATHURST NSW 2795,
info@conformgroup.com.au
1300 882 490

ALL DIMS. GIVEN IN MM
Scale: 1 / 10 | REV: A

Product
Acoustic+ Cassette, Panel, 1200, Option, E, Asm, A

Drawing Title
CFG-403-029
Sheet 1 OF 1



63	125	250	500	1000	2000	4000
22	26	30	35	40	45	37

Rw 40 dB
C -1 dB
Ctr -4dB

Rw + (Ctr) = 40 (-4)

Evaluation based on theoretical method.
Margin of error is generally within Rw±3dB

Approved by:
Michael Phillips, Director

M.A.A.S.
MArchSc (Audio & Acoustics),
AssocDeg (Audio Eng.)

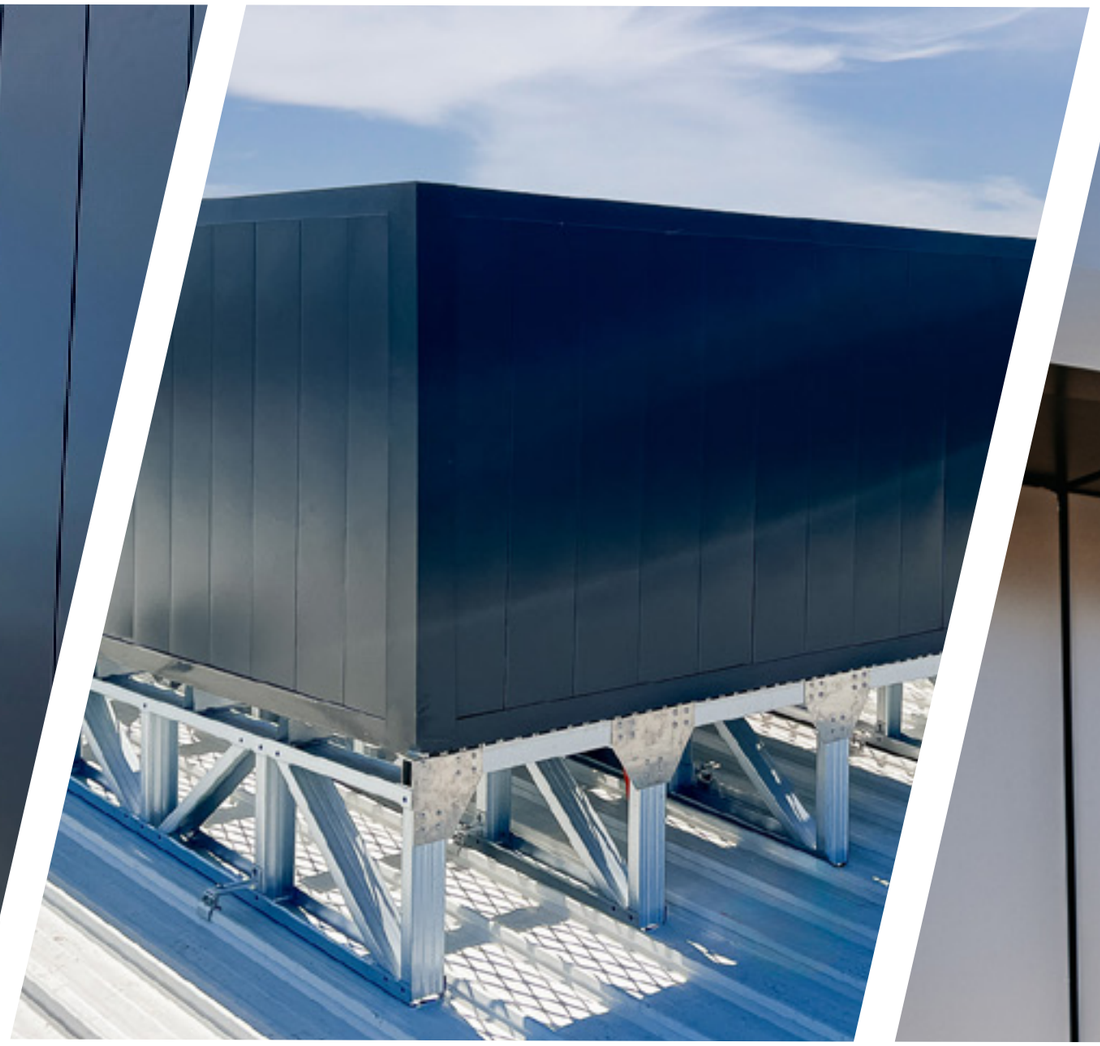
michael phillipsacoustics

Option E, with a surface density of 31 kg/m², is designed for the most demanding noise control needs. It includes a standard noise-absorbent surface and an NRC of 0.75, ensuring maximum sound absorption.

Project examples

Versatile system options

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



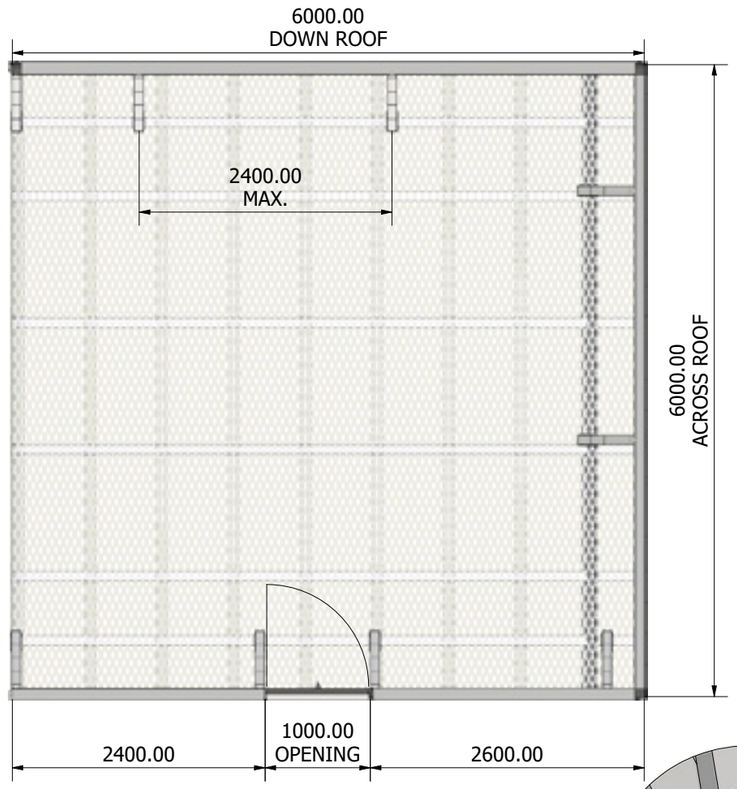
Custom
Engineered Product

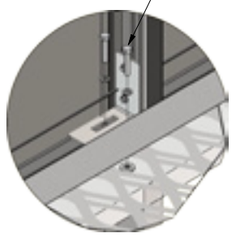
Architectural
Creative Parnter

Design
To Install

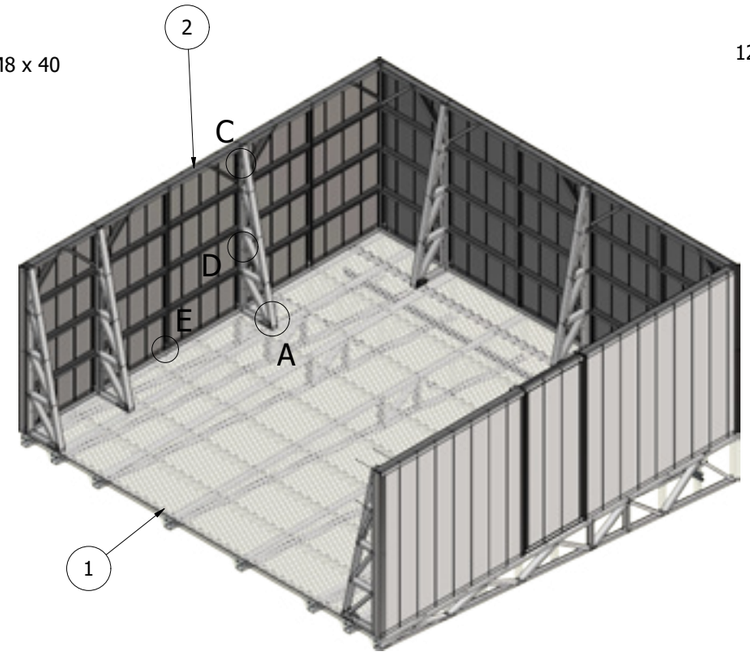
PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	CFG-102	Easy Mech, MR 6x6, A
2	1	CFG-403-050	Easy Screen, A+ Cassette , Asm, A

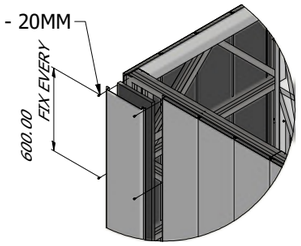
REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
A	CREATED	22/07/2024	DW



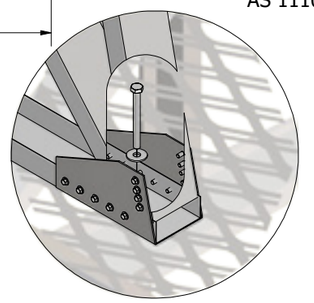


E (1:6)
FRAME TO PLATFORM
FIXING DETAIL

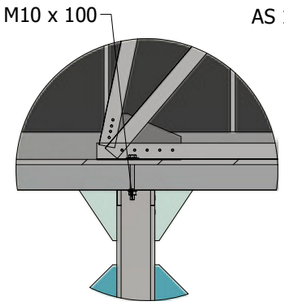




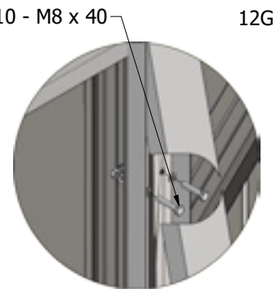
F (1:25)
CASSETTE FIXING DETAIL



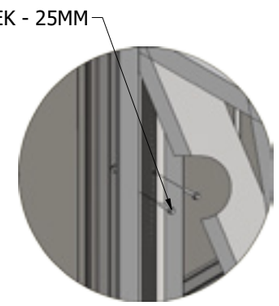
A (1:6)
SCREEN BRACE TO PLATFORM
FIXING DETAIL



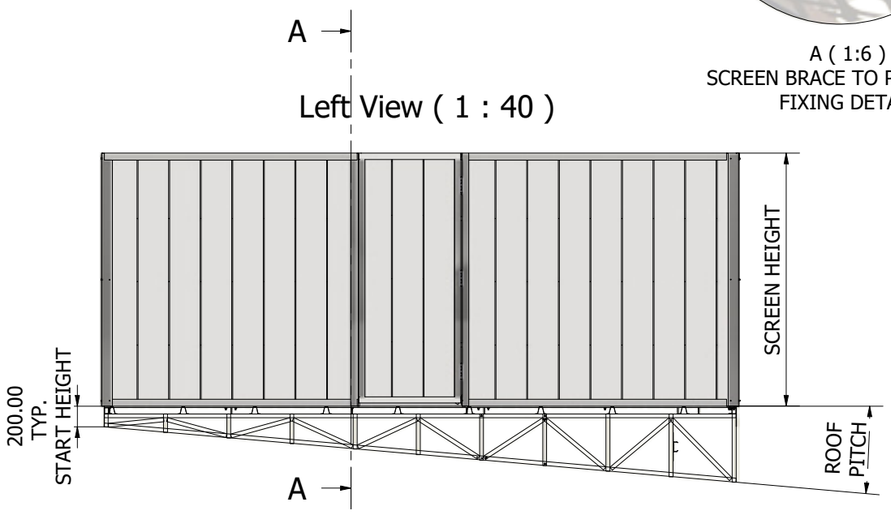
B (1 : 10)
SCREEN BRACE TO PLATFORM
FIXING DETAIL

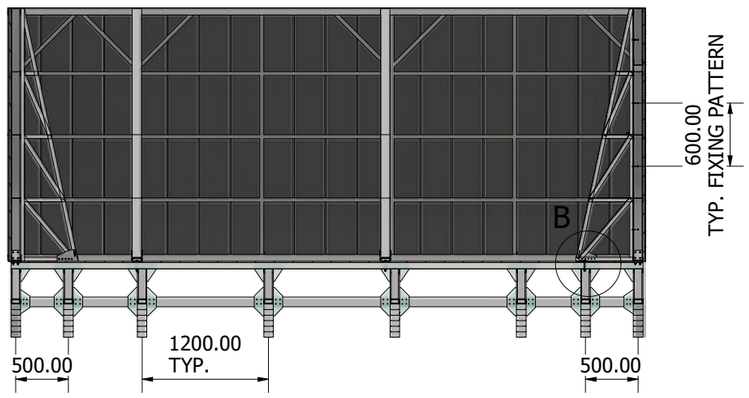


C (1:6)
BRACE TO FRAME
TOP FIXING DETAIL



D (1:6)
BRACE TO FRAME
INTERMEDIATE FIXING DETAIL





A-A (1 : 40)

Design Notes:

CFG-400-238 Post and Rail System
specifically for use with Cassette Screen System
Relevant Products
- Acoustic+ Screening System
- Classic Screen System
Standard Screen & Frame Height:
a) 1200MM
b) 1600MM
c) 1800MM
d) 2000MM
e) 2400MM (Shown)
Note:
(Refer to CFG-400-238 for Screen Framing Details)
(Refer to CFG-401-002 for Post Brace Details)

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

Frame: 0.75mm, G550, AZ150,
Aluminium Zinc Coated Steel
Cassettes: 0.55mm, G300, AZ150, Prepainted Steel
25mm Polyester Absorber
Material:

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1300 882 490

ALL DIMS. GIVEN IN MM

Scale: 1 : 40 | REV: A

Product
Easy Mech, MR, A+ Screen, ASM, A

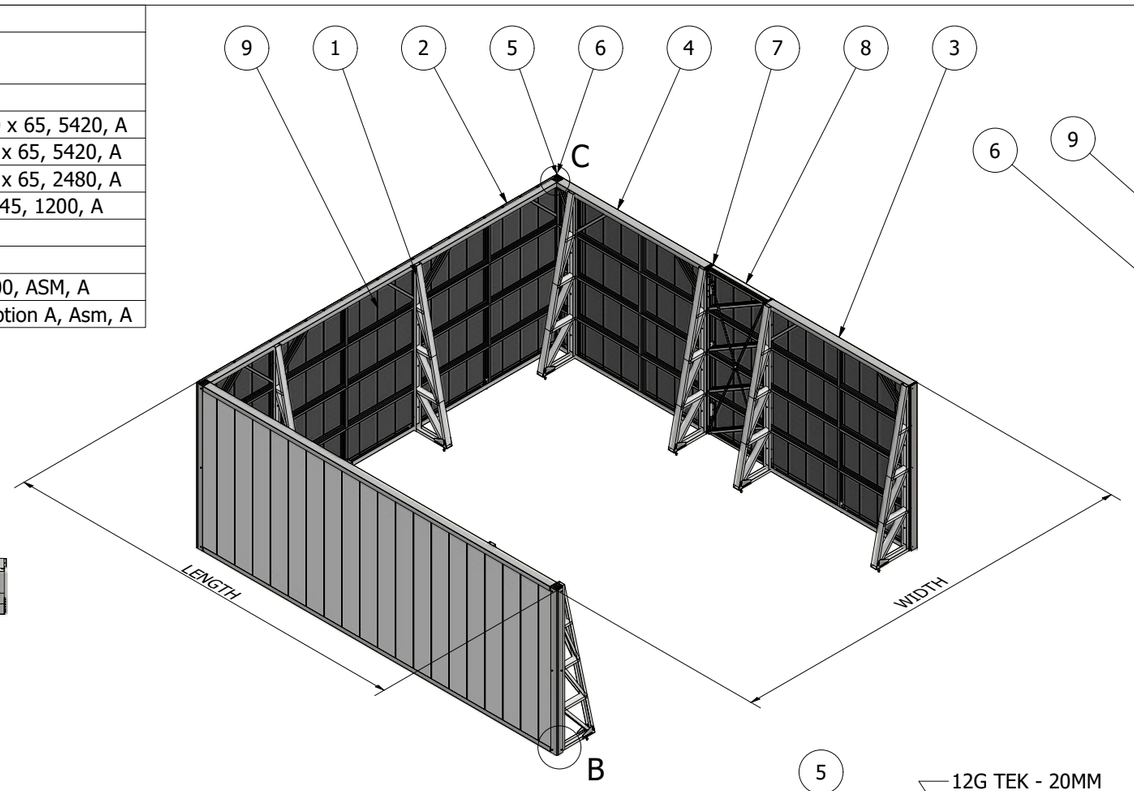
Drawing Title
CFG-195

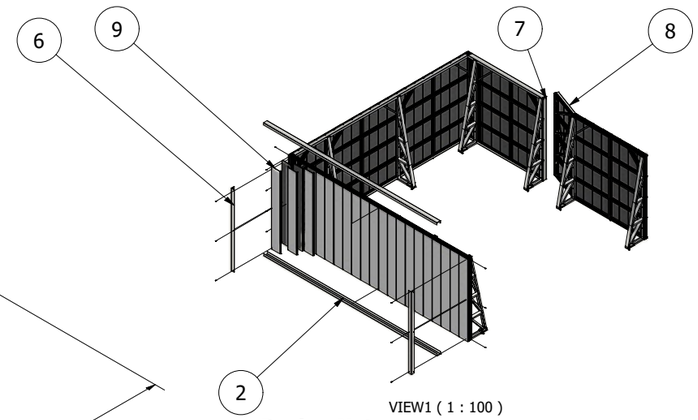
Sheet
1 OF 3

D:\$WorkingFolder\Engineering Data\01 Assemblies\01-EASY MECH MR\Easy Mech, MR, A+ Screen, ASM, A.iam

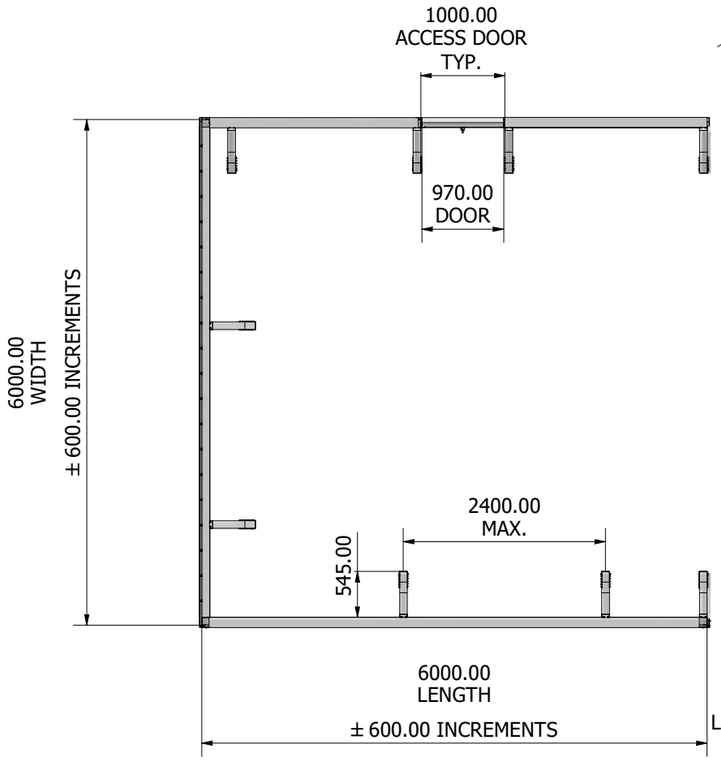
PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	CFG-400-238	Rollform, Easy Frame, Asm, A
2	4	CFG-400-247	Screem Flashing, Top & Bottom, 120 x 65, 5420, A
3	2	CFG-400-248	Screen Flashing, Top & Bottom, 120 x 65, 5420, A
4	2	CFG-400-249	Screen Flashing, Top & Bottom, 120 x 65, 2480, A
5	2	CFG-400-251	Cassette Packer, Expanded PS, 25 x 45, 1200, A
6	4	CFG-400-255	Screen Corner Flashing - 2400, A
7	2	CFG-400-257	Screen, Door Flashing, 2400, A
8	1	CFG-400-295	Door, Classic, Cassette, RF, 970, 2400, ASM, A
9	57	CFG-403-052	Acoustic+ Cassette, Panel, 2400, Option A, Asm, A

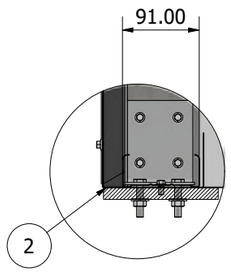
REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
A	CREATED	22/07/2024	DW



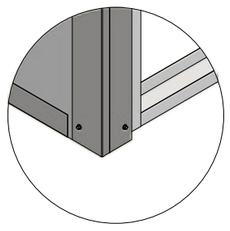


VIEW1 (1 : 100)

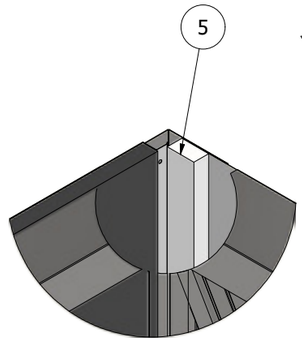




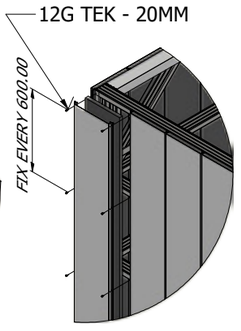
A (1 : 5)
LOWER CASSETTE GUIDE DETAIL



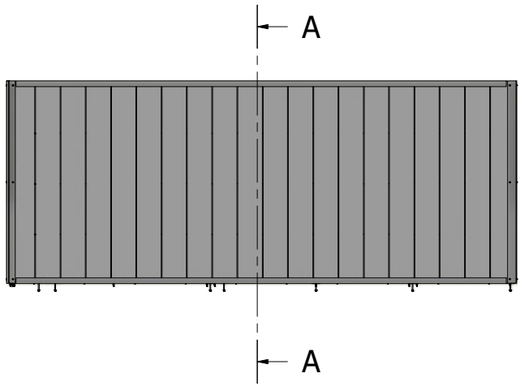
B (1 : 10)
FLASHING CORNER DETAIL

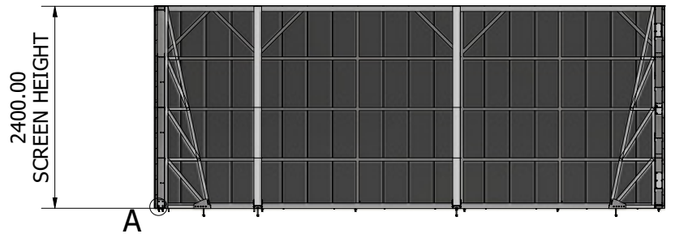


C (1 : 5)
CASSETTE PACKER FOR
TRIMMED PANEL



D (1 : 25)
CASSETTE FIXING DETAIL





A-A (1 : 50)

Design Notes:

CFG-400-238 Post and Rail System
specifically for use with Cassette Screen System
Relevant Products
- Acoustic+ Screening System
- Classic Screen System

Standard Screen & Frame Height:
a) 1200MM
b) 1600MM
c) 1800MM
d) 2000MM
e) 2400MM (Shown)

Note:
(Refer to CFG-400-238 for Screen Framing Details)
(Refer to CFG-401-002 for Post Brace Details)

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

Frame: 0.75mm, G550, AZ150, Aluminium Zinc Coated Steel

Cassettes: 0.55mm, G300, AZ150, Prepainted Steel, 25mm Polyester Absorber

Material:

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

ALL DIMS. GIVEN IN MM

Scale: 1 : 50 | REV: A

Product
Easy Screen, A+ Cassette , Asm, A

Drawing Title
CFG-403-050

Sheet
1 OF 1

D:\5WorkingFolder\Engineering Data\01 Assemblies\04-2-ACOUSTIC SCREEN WALL\Easy Screen, A+ Cassette , Asm, A.iam

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Our Capability Brands

MCE **Manufacturing** Centre of Excellence

DDC **Digital Design** Centre

PDC **Product** Development Centre

CEP **Custom** Engineered Product

ACP **Architectural** Creative Parnter

D2I **Design** To Install