

**Con-form**<sup>®</sup>  
**GROUP**

 **value**engineering™



Surface Mounted  
Platform Systems

[www.con-formgroup.com.au](http://www.con-formgroup.com.au)

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# Surface Mounted Platform Systems & Acoustic Screening Solutions



## At Con-form we're dedicated to value engineering solutions.

We'll provide you with quickly assembled, lightweight aluminium platform systems - complete with specifications, CAD renders, 3D Revit files, shop drawings and timely proposals. In every aspect, from design, through to installation, we operate by our motto: "Making it Easy". Our surface mounted platforms are the perfect solution for large condensers, packaged air-con units and other mechanical plant equipment.

Con-form's range of proprietary platform systems are generations ahead of heavy and unsightly conventional steel platforms and responsive to each project's needs. Our platforms integrate seamlessly with our screening and acoustic products, to provide excellent sound isolation, while complementing surrounding architecture and keeping tenants, neighbours and local councils happy.

Our robust systems reduce labour costs and lead times by eliminating the need for large penetrations and back flashings, while providing roof-top positioning flexibility and fast assembly – with nothing to measure, nothing to cut and nothing to weld. These penetration free platforms are quickly bolted together on-site and easily assembled, avoiding the extended and expensive nature of traditional steel platforms.

Con-form Group works cohesively with Mechanical Engineers, Structural Engineers, Architects, Consultants, Air Conditioning Contractors, Refrigeration Contractors and related trades, to provide project specific solutions every time.

# SERIES 1

Surface Mounted Platform System - Ideal for all metal deck roofs, at any pitch.



## Benefits

- This proprietary system is generations ahead of traditional engineered structural steel platforms
- Provides clean lines & a smooth low profile finish
- All aluminium components with stainless steel fixings backed by a 20 year warranty
- Unique design distributes your load evenly - reducing the structural requirements of the roof
- Engineered to a live load rating of 2.5kPa, 5.0kPa and greater. AS1657-2013
- Allows for roof-top positioning flexibility
- Lightweight at 14kg / m<sup>2</sup>
- Starting height of 138mm

## Versatile

- Con-form Platforms are available in modular 600mm increment sizes to suit your needs
- Reduce your duct work by placing air-conditioning units directly above internal units
- Easy assembly, aluminium design reduces the need for additional structural requirements
- System remains flexible during and after project design, allowing for changes late into the construction stage

## Speed of Build

- Con-form Platforms are in stock and ready to go, greatly reducing lead times
- Platforms can be assembled by a trade that is already on site with Con-form's simple installation manual

## To Specify This System:

"Provide Con-form Series-1 proprietary surface mounted platform system. Size to suit any plant equipment and roof pitch, while allowing sufficient area around the units for access."

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**Project:** Aldi, Halls Head, WA  
**Product:** Series-1 Surface Mounted Platform

# SERIES 2

Surface Mounted Platform System - Free standing, adjustable mechanical deck, designed for concrete surfaces.



## Benefits

- This proprietary free-standing system eliminates penetrations, protecting your roof membrane
- All aluminium and 304 Stainless Steel components backed by a 20 year warranty
- Engineered to a live load rating of 2.5kPa, 5.0kPa and greater. AS1657-2013
- Solid 304 stainless steel base features a UV stabilised rubber isolation pad to help reduce vibrations and provide sound dampening to the structure below
- Lightweight at 18kg / m<sup>2</sup>
- Minimum starting height of 330mm

## Versatile

- Con-form Platforms are available in modular 600mm increment sizes to suit your needs
- Base supports have 100mm of adjustment to allow for drainage provisions
- Aluminium design makes for easy assembly and reduces the need for additional structural requirements
- System remains flexible during and after project design allowing for changes late into the construction stage
- Unique design distributes your load evenly, reducing the structural requirements of the roof

## Speed of Build

- Con-form Platforms are in stock and ready to go, greatly reducing lead times
- Platforms can be assembled by a trade that is already on site with Con-form's simple installation manual

## To Specify This System:

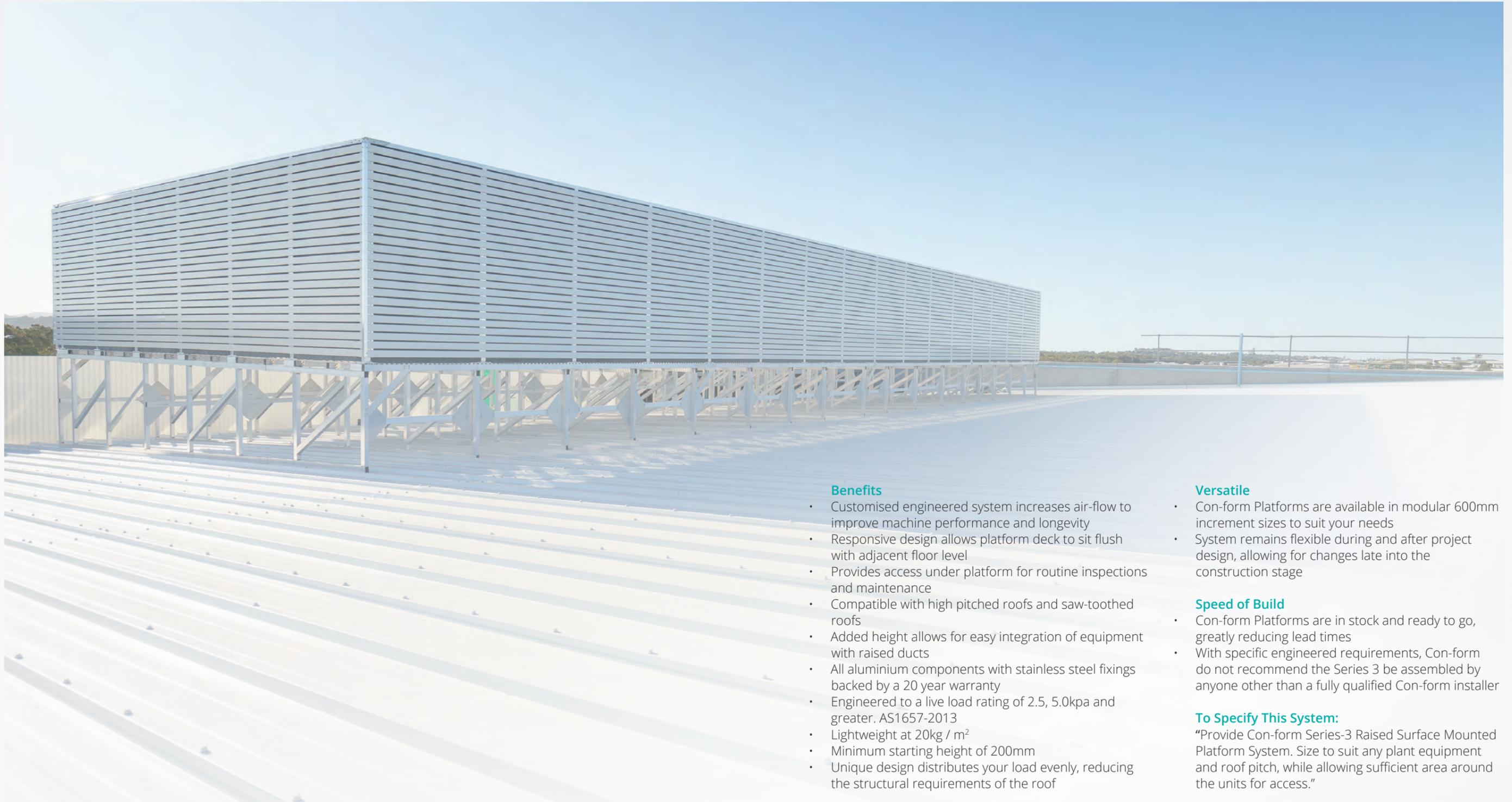
"Provide Con-form Series-2 proprietary surface mounted platform system. Supported by solid 304 stainless steel base feet with rubber isolation pads. Size to suit any plant equipment, allowing sufficient area around the units for access."

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**Project:** 1 Collins Street, Melbourne, VIC  
**Product:** Series-2 Surface Mounted Platform

# SERIES 3

Raised Surface Mounted Platform System - Where additional height is required. Designed for both metal deck roofs and concrete surfaces.



## Benefits

- Customised engineered system increases air-flow to improve machine performance and longevity
- Responsive design allows platform deck to sit flush with adjacent floor level
- Provides access under platform for routine inspections and maintenance
- Compatible with high pitched roofs and saw-toothed roofs
- Added height allows for easy integration of equipment with raised ducts
- All aluminium components with stainless steel fixings backed by a 20 year warranty
- Engineered to a live load rating of 2.5, 5.0kpa and greater. AS1657-2013
- Lightweight at 20kg / m<sup>2</sup>
- Minimum starting height of 200mm
- Unique design distributes your load evenly, reducing the structural requirements of the roof

## Versatile

- Con-form Platforms are available in modular 600mm increment sizes to suit your needs
- System remains flexible during and after project design, allowing for changes late into the construction stage

## Speed of Build

- Con-form Platforms are in stock and ready to go, greatly reducing lead times
- With specific engineered requirements, Con-form do not recommend the Series 3 be assembled by anyone other than a fully qualified Con-form installer

## To Specify This System:

"Provide Con-form Series-3 Raised Surface Mounted Platform System. Size to suit any plant equipment and roof pitch, while allowing sufficient area around the units for access."

**Project:** Coles, Casuarina, NSW

**Product:** Series-3 Raised Surface Mounted Platform

# Standard Screen Wall

Conceal unsightly plant machinery with the sharp clean lines of the Screen Wall. Integrates aesthetically with surrounding architecture.



## Powder coated to match any colour scheme

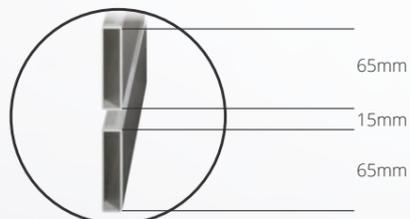
- Very quick assembly – no cutting or welding
- All aluminium and stainless steel durability
- Certified for wind zones A, B and C, TC 2.5
- One complete kit

## Technical details

- Standard Heights: 1200mm, 1600mm & 2000mm
- Open Space: 18.75%
- Powdercoat: Complete Dulux and Interpon Range

## To Specify the Standard Screen Wall:

- Provide Con-form proprietary surface mounted platform systems with Standard Screen Wall
- Size to suit any plant equipment allowing sufficient area around the units for access
- With Screens at 1200mm, 1600mm or 2000mm high



# Soundshield

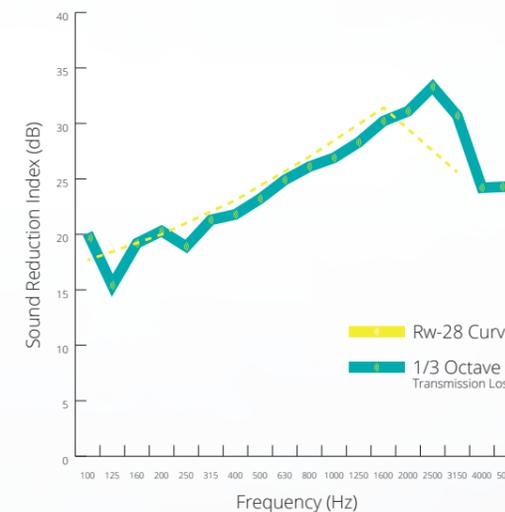
Effective noise reduction by reflection, with an **Rw rating of 28**.



## Why Choose Soundshield?

Noise pollution is one of the biggest problems faced in cities today. Soundshield combats noise pollution by acting as a reflective barrier, efficiently blocking sound from exiting a contained area and providing peace of mind for nearby residents. With a Weighted Sound Reduction Index (Rw) of 28, Soundshield provides excellent sound insulation performance.

The system is very effective at changing the direction of sound wavefronts and enables engineers and architects to contain sound caused by plant machinery. The contemporary clean lines of Soundshield blend aesthetically with surrounding architecture.



# Peacemaker

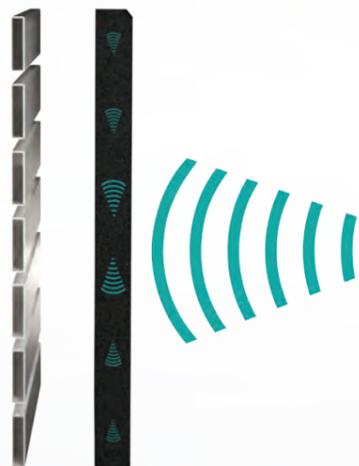
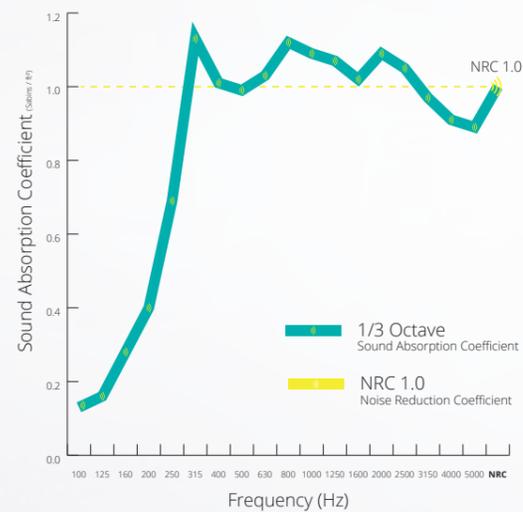
Exceptional noise control through absorption, with an **NRC of 1** and **Rw rating of 5**.



## Why Choose Peacemaker?

Peacemaker is made of sound absorbing polyethylene foam that effectively traps noise within its cell structure. Sound absorption testing indicates a perfect Noise Reduction Coefficient (NRC) of 1. Peacemaker offers consistent acoustical performance across a variety of environments, and its hydrophobic properties protect against humidity and water absorption, while being flame retardant.

A zero echo surface, Peacemaker is extremely effective at reducing noise caused by loud plant machinery. Its highly absorptive nature takes in sound energy from machinery and is transformed into heat and transmitted through the Peacemaker panels.



# Acoustic+

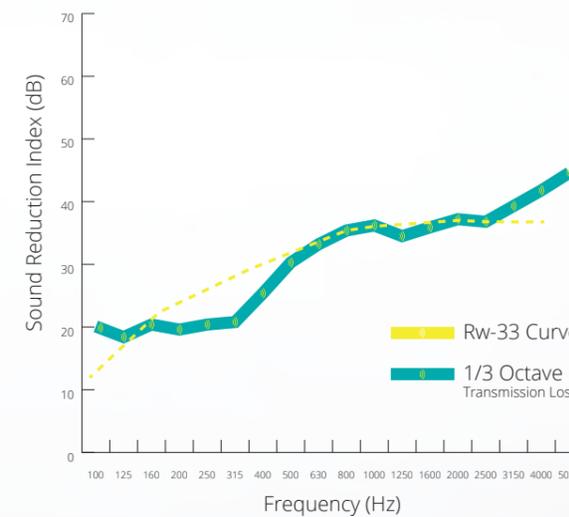
Ultra noise reduction by absorption & reflection, with an **Rw rating of 33**.



## Why Choose Acoustic+?

Acoustic+ combines the sound attenuation properties of both Soundshield and Peacemaker to yield superior noise reduction results, providing an Rw rating of 33. Actively reducing noise in three phases (absorbing, reflecting & absorbing). Acoustic+ is Con-form Groups' premier acoustic solution. A zero echo sound isolation system, Acoustic+ offers good looks and seamless integration with contemporary architecture.

Acoustic+ is Con-form Group's most effective system at reducing sound energy, due to its three phase operation. As sound waves are transmitted into the Peacemaker panel they dissipate and are blocked by the Soundshield, then returned into the Peacemaker panel with significantly reduced energy.



# AVANT

Anti Vibration  
Anti Noise Technology.



## Vibration Isolation & Control

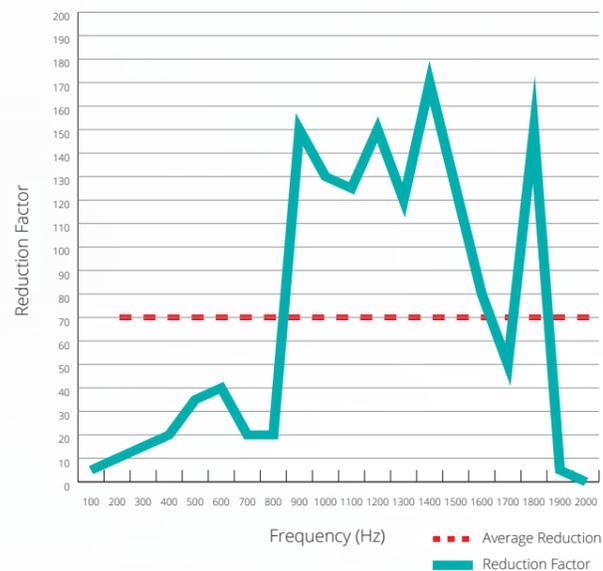
Mechanical vibration and vibration induced noise are often major sources of occupant complaints in modern buildings. Lighter weight construction in new buildings has made these buildings more susceptible to vibration related problems.

AVANT vibration isolators are tested using sinusoidal vibration methods and shown to effectively dampen vibrations by an average of 70 times (see graph), markedly minimising the vibration energy transmitted to the building structure and the level of vibration felt by building occupants. AVANT also works as a shock absorber for mechanical equipment, significantly improving the longevity of machine life by actively reducing the vibration and shock caused by moving parts.

Made from high grade elastomeric neoprene, AVANT is designed specifically to reduce and isolate vibrations from condensers, air conditioning units, generators, compressors and other mechanical equipment. AVANT's corrugated surface is slip resistant, further reducing noise amplification and vibration associated with metal to metal friction.

## Sizes

120mm x 120mm x 22mm - 1 AVANT / 25Kg of equipment  
300mm x 300mm x 22mm



## Certifications

The Con-form product range has been designed to meet all standards required. Engineer certifications ensure that structural designs comply with the following standards:

**Australian Standards** - AS1170.1, AS1170.2, AS1657 & AS1664.1 & Relevant Clauses of the Building Code of Australia

## Con-form Ratings

Live loads rated to 2.5kPa, 5kPa or greater

## 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 Rating

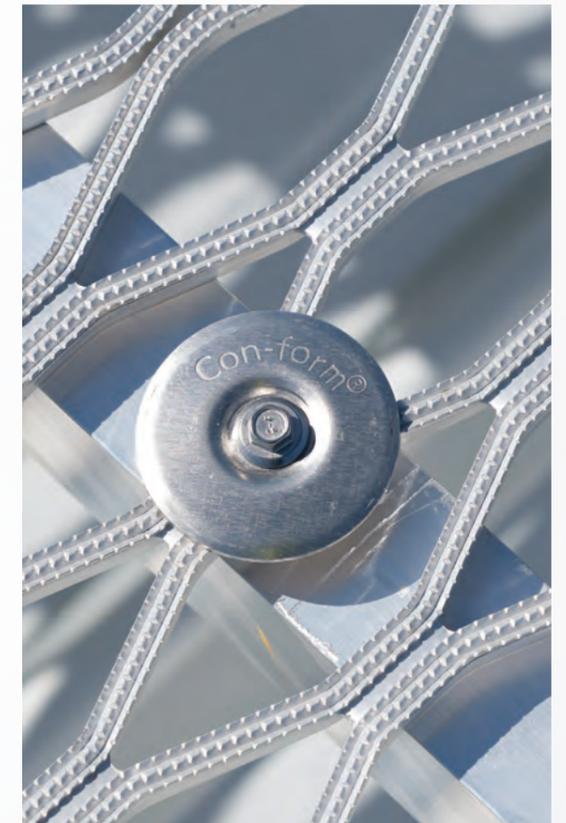
**Soundshield** achieves a Weighted Sound Reduction Index of  $R_w(C;Ctr) = 27(0;-2)$

**Peacemaker** achieves a Noise Reduction Coefficient (NRC) of 1  
**Acoustic+** achieves a Weighted Sound Reduction Index of  $R_w(C;Ctr) = 27(0;-2)$  and Noise Reduction Coefficient (NRC) of 1

- Tested by Day Design Consulting Acoustic Engineers at the National Acoustic Laboratories in accordance with AS/NZS ISO 717.1 2004

## Warranty

The complete Con-form range is backed by a 20 year warranty



# Frequently Asked Questions

## What information do I need to provide to obtain a proposal?

The roof pitch in degrees and the size of the platform required (in 600mm increment sizes). Or, the size of the machine to be mounted on the platform and the location of the machine's access panels for maintenance access.

## What materials are the platforms constructed from?

Components – combination of extruded, folded, welded trusses and punched aluminium alloy 6063 T6.  
Fixings – 304 Stainless Steel.  
Series 2 Supports - 304 Stainless Steel.

## How are the platforms fixed to the roof?

There are two options available:

1. Surface mounted, to ensure penetration free installation. This is achieved using either single sided tape or very high bond double sided structural tape. This tape also acts as a dissimilar metal break and assists in sound and vibration reduction.
2. Mechanically fixed through to roof purlins using either tek screws or bolts.

## What is the platform rated to?

Platforms are live load certified and engineered to 2.5kPa, 5.0kPa or greater - which meets the Aus/NZ Standard for platforms – AS1657 – 2013.

## How much weight can I place on the platform?

250kg per m<sup>2</sup> (2.5kPa) and 500kg per m<sup>2</sup> (5.0kPa), providing the weight is centered on the platform. The innovative engineered design ensures that the load is evenly distributed throughout the whole of the platform.

## What is the weight of these platforms & optional extras?

Con-form Platform Series-1: 14 Kg/m<sup>2</sup>  
Con-form Platform Series-2: 18 Kg/m<sup>2</sup>  
Con-form Platform Series-3: 20 Kg/m<sup>2</sup>  
Standard Screen Wall: 7kg/m<sup>2</sup>  
Soundshield Acoustic Screen Wall: 15.25kg/m<sup>2</sup>  
Peacemaker Acoustic Screen Wall: 7.25kg/m<sup>2</sup>  
Acoustic+ Acoustic Screen Wall: 16.5kg/m<sup>2</sup>  
Guard rails: 3kg/lineal metre

## What is the minimum starting height of each platform?

Con-form Platform Series-1 is 138mm  
Con-form Platform Series-2 is 330mm  
Con-form Platform Series-3 is 200mm

## What tools do I need to assemble a platform?

A 13mm spanner which is supplied with the fixings, a drill and tek driver.

## Will I need to crane the platforms onto the roof?

If the complete platform is required on the roof in one package, a crane would be required – the alternative is to cut the package open and carry the individual parts up.

## How do I mount/attach my air conditioning units to your platforms?

As there are so many varied units with different mounting configurations, our certification does not cover this aspect, hence we do not provide fixings for this. It is best to discuss this with our consultants on 1300 882 490.

## Can I have a penetration in the platform?

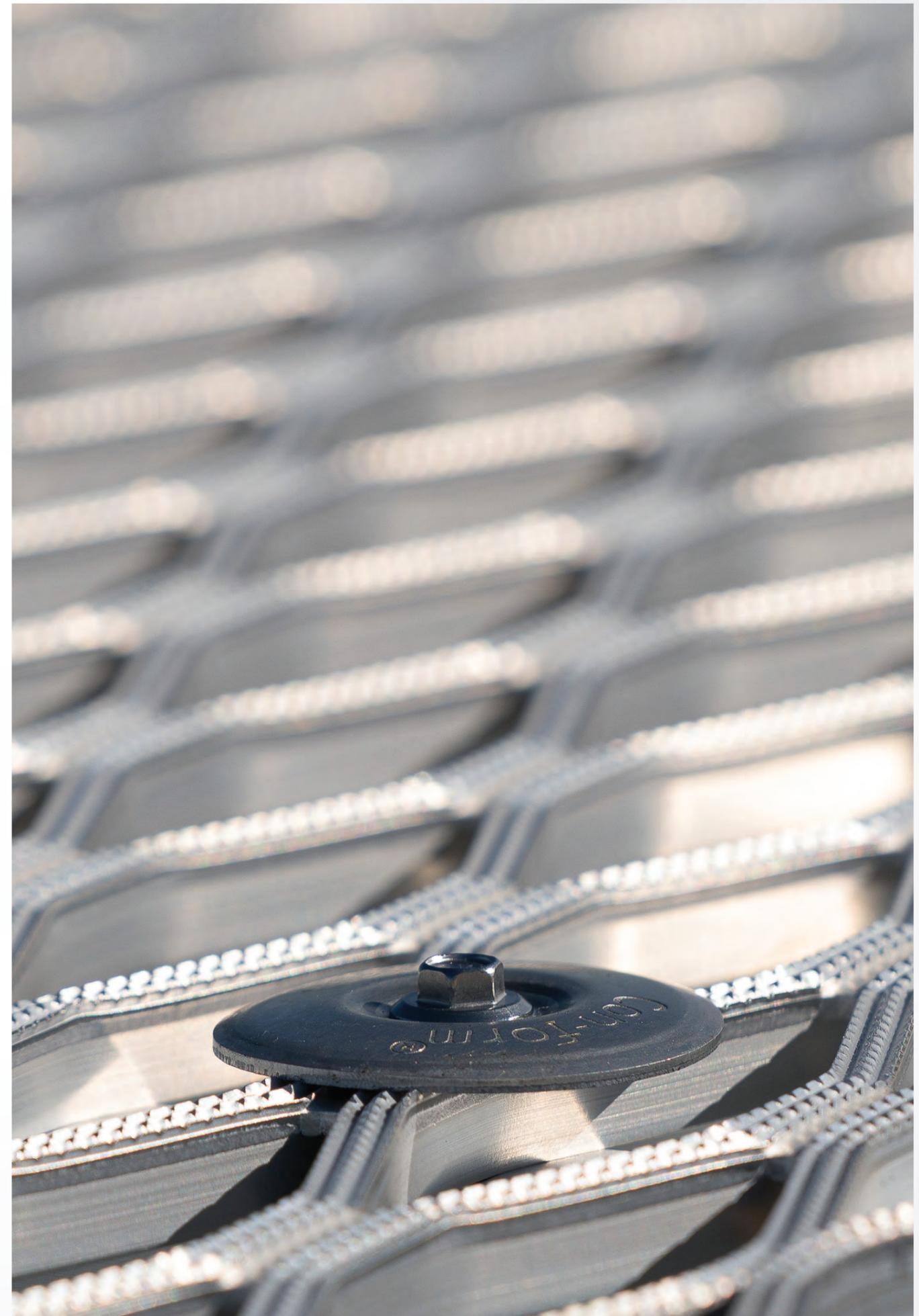
Yes, a penetration of any size can be cut in the platform, in order to accommodate duct work and services.

## What is the warranty on your platforms?

The complete Con-form product range is backed by a 20 year warranty.

## When should I use AVANT pads?

To ensure correct installation methods are practiced and where sound and vibration reduction is important, Con-form recommends installing any mechanical equipment with AVANT vibration isolators positioned evenly under each foot for maximum performance.





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