

**NE<sup>X</sup>T GENERATION**  
**ENCLOSURES & CONTAINERISED SOLUTIONS**



# OUR CAPABILITIES

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At the intersection of innovation and excellence lie our world-class facilities and unmatched industry capabilities



We have almost 50 years of specialist acoustic experience and a fully integrated solutions package, from consultancy & surveys through to design, manufacture and installation.

**321,000ft<sup>2</sup> of operational footprint**

With an overall operational footprint of 321,000 ft<sup>2</sup>, our world class facilities have been designed to maximise process efficiency and manufacturing quality and to further drive down our industry leading turnaround times.



Twin 10T Crane



Servo drive CNC Turret Punch



Industrial spray booth



# MODULAR ALUMINIUM ENCLOSURE

by Mansfield Pollard

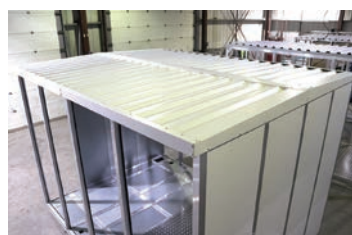
new thinking...  
new design...  
new solution...



*a modern alternative to traditional enclosures & containers*

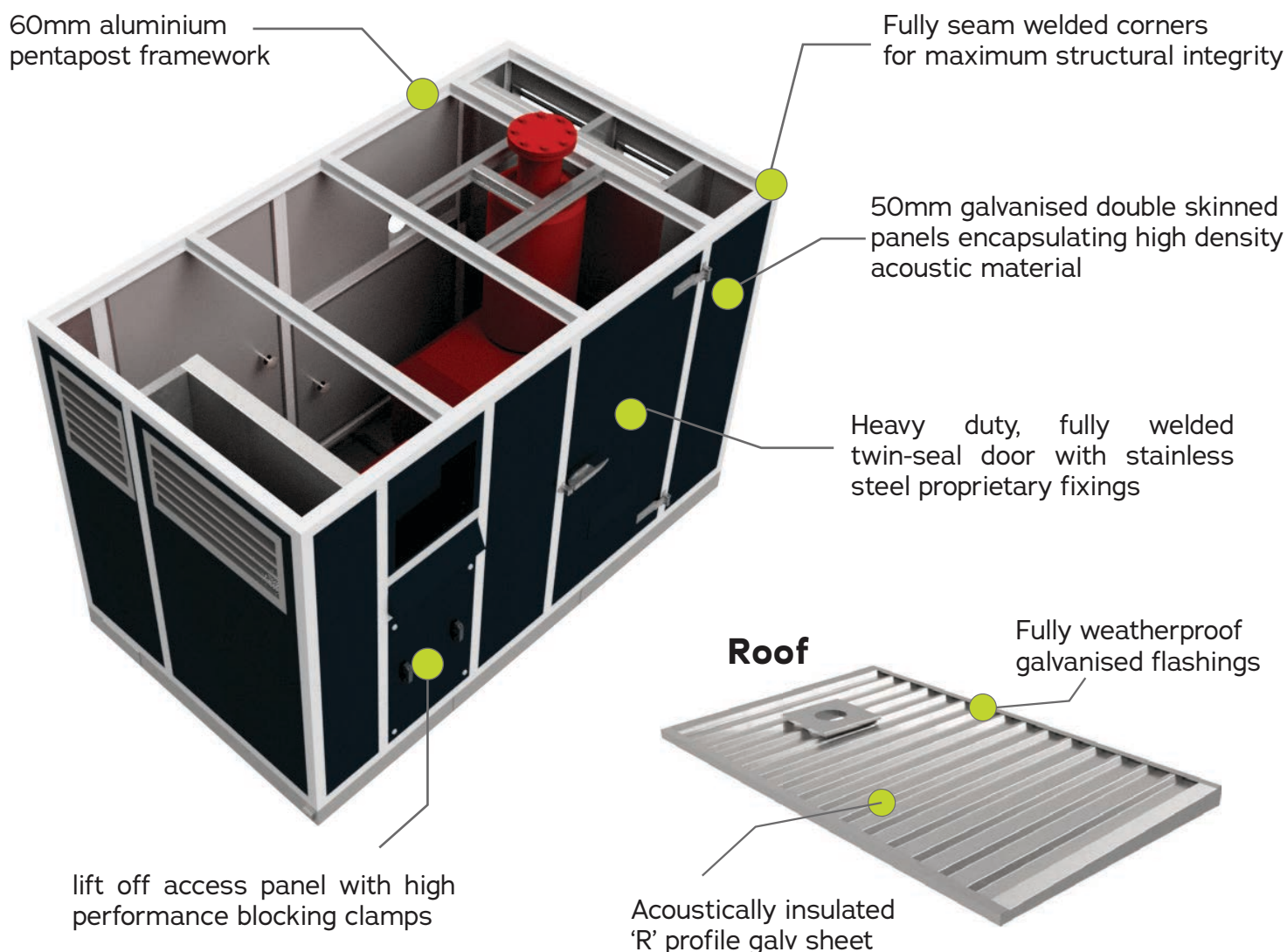
As an acknowledged industry leader in both the acoustic enclosures and container market and air handling sectors, Mansfield Pollard's modular aluminium enclosure combines decades of design refinement from both disciplines to create a unique acoustic solution.

- ➔ lightweight and **cost effective**
- ➔ **accelerated** manufacturing
- ➔ high performance **solution**












# WHAT IS A MODULAR ALUMINIUM ENCLOSURE?

A high performance contemporary solution, expertly designed to be a lightweight and cost effective alternative to traditional containers and enclosures.



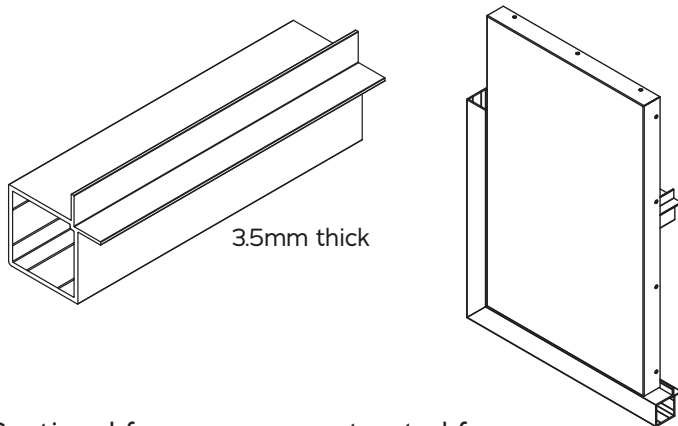
*With a design based on our industry leading air handling units, the modular aluminium enclosure provides a real alternative to traditional enclosures, with all the quality you would expect from a Mansfield Pollard product*

**“ What are the advantages of the new modular aluminium enclosures compared to a traditional enclosures and containers? ”**

<p><b>Cost Efficient</b></p>  <p>Material cost efficiencies compared to specialist enclosures &amp; containers</p>	<p><b>Lightweight Construction</b></p>  <p>Reduces preliminary site work and simplifies transport &amp; installation</p>	<p><b>Superior Noise Reduction</b></p>  <p>Acoustically engineered to achieve the required noise level requirements</p>
<p><b>Accelerated Build</b></p>  <p>Streamlined manufacturing process &amp; simplicity of construction</p>	<p><b>High Performance</b></p>  <p>Superior build quality &amp; corrosion resistance combined with excellent acoustic performance</p>	<p><b>Ultra Flexible</b></p>  <p>Any size unit, available as flatpack or modular drop over container or full enclosure</p>
<p><b>Customisable Options</b></p>  <p>Choice of different load bearing bases, options for lift off panels and specialist door furniture</p>	<p><b>Tailored Aesthetics</b></p>  <p>Full range of RAL colors and professional coating protection available to suit any environment</p>	<p><b>Independently Tested</b></p>  <p>Independent product validation and testing to maintain the accuracy of acoustic modelling</p>

# SUPERIOR CONSTRUCTION

## FRAMEWORK



Sectional frames are constructed from anti-corrosive aluminium alloy in an extruded pentapost profile. 3.5mm thick, the aluminium composition conforms to 6063-T6 / 6063A-T6 and has a minimum tensile strength of 100Mpa.

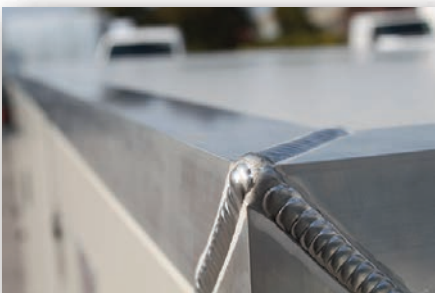
As standard, corners are fully seam welded inside and out with an angular corner gusset piece to maximise frame rigidity and maintain the integrity of seal.

'Knock in' corners are available on request (aluminium cast or plastic)

### Real levels achieved in specification test

	Mechanical Strength	Leakage Class	Thermal Transmittance	Thermal Bridging
50mm Panel	D2	L2	T2	TB3

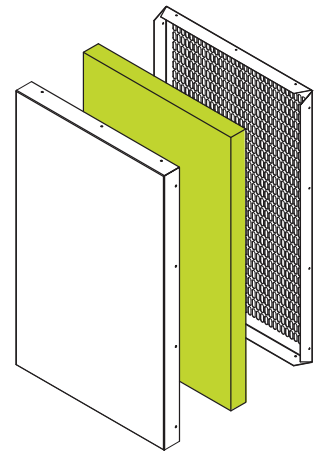
(standard model box)



## PANELS

Enclosure panels are tray-in-tray double skinned with external 200µ PVC top coat finish & internal hot dipped galvanised steel Z275

The 50mm thick panels are internally stiffened as necessary with acoustic material encapsulated within. Mineral wool insulation of 60kg/m<sup>3</sup> provides excellent acoustic performance and is euroclass rated A1 non-combustible



Access panels are of hinged or lift off design and close onto heavy duty adhesive gasket to provide an airtight enclosure.

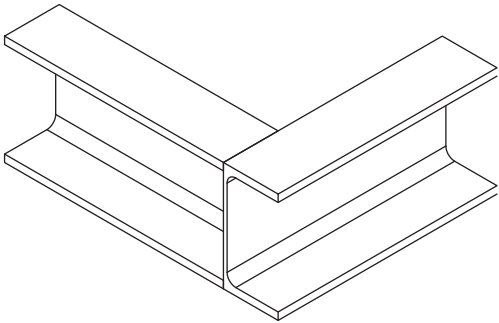


### Static panel insertion losses (minimum)

Octave Band (Hz)	63	125	250	500	1K	2K	4K
50mm Panel (dB)	18	18	35	41	45	44	40

options to improve acoustic performance by up to 35dB(A)

## ENCLOSURE BASE



Drop over enclosures are manufactured with a Parallel Flange Channel (PFC) base with fully welded corners to maximise strength and rigidity. In addition there are options available for galvanising and other protective coatings. Integrated lifting points are also available if required.

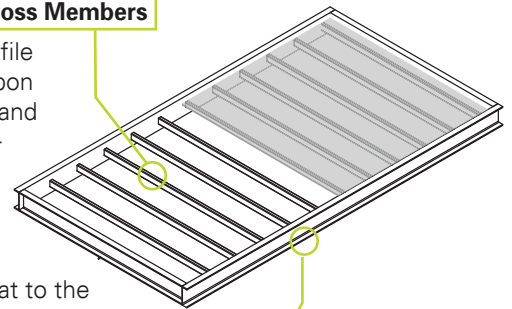
MAE bases are designed and manufactured to specification dependent upon structural requirements.

A choice of profile and structural cross members in addition to options for full seam welding and bunding

## CONTAINER BASE

### Structural Cross Members

Choice of profile dependent upon specification and requirement - fully welded approx every 300mm with a bitumastic protection coat to the underside



### Parallel Flange Channel

Shot blasted and painted to required finish with integrated lifting points.

### Bunded Base Option

Fully seam welded durbar steel bunded base complete with internal runners



# UNIT CUSTOMISATION

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Full in-house customisation capabilities to maximise quality control and provide exceptional value



## In-House Controls

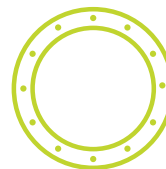
Design, manufacture and testing of control panels from our in-house controls team. From single panel builds to full turn-key projects our software programmers and experienced panel builders are specialists in automation and control.

## Component Options

Extensive choice of customisable components, designed, manufactured and installed in-house to suit the application and specification. Popular component items listed below: (please note this not an exhaustive list)



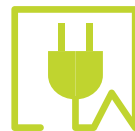
**Attenuator sections**



**View ports**



**Air conditioning, fans & filters**



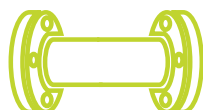
**Electric lights sockets and trunking**



**Smoke detectors, fire & burglar alarms**



**Dampers / gravity flaps**



**Gland plates / pipes / pipe sleeves**



# MODULAR ALUMINIUM ENCLOSURE

by Mansfield Pollard

## The Acoustic Team

Our experienced in-house acoustic team includes some of the foremost experts in field of acoustic control. Fully supported by our time-served engineers and Senior Leadership Team, Mansfield Pollard is recognised globally as an industry leading designer and manufacturer of acoustic enclosures, containers and wider acoustic solutions.



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containers & enclosures



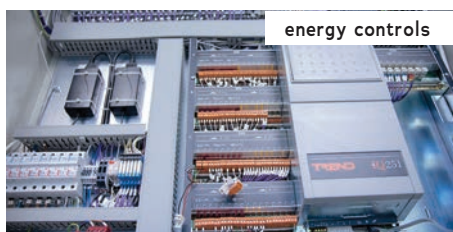
attenuators



air handling



data centre cooling



energy controls



For over 150 years, our air management experts have transformed thousands of working environments. When there is a need to control temperature, remove pollutants or limit noise our symbiotic and complementary products ensure we design, manufacture and install the perfect solution, on time every time..

# OTHER ACOUSTIC SOLUTIONS



**Specialist acoustic enclosures and containers, engineered to meet any specification and application.**

With almost 50 years of industry experience, we specialise in designing and manufacturing robust, high-integrity acoustic enclosures and containers for the power generation sector, engineered to meet your precise specifications and environmental conditions.



## FULLY WELDED CONSTRUCTION



Robust design offers the ultimate in durability and integrity of all internal components

## CUSTOMISABLE INTERNALS



In-house fabrication to meet any specific equipment & operational requirements.

## ADVANCED SURFACE FINISHES



In-house paint facility providing up to C3 spec. finishes, extending to C5 (via key supplier)

## INDEPENDENTLY TESTED



High integrity, fully tested solutions to achieve the most stringent performance standards

## Any Shape, Size or Application....

Our enclosures and containers deliver unparalleled versatility, engineered to support a wide range of applications, including switchgear, UPS battery systems, and critical data centre operations.



## Full Fit-Out Capabilities



Seamless integration of generators, tertiary equipment and infrastructure within our acoustic enclosures: including heavy cabling, pipework and fuel tank installations, delivering a complete and efficient solution.

# OTHER ACOUSTIC SOLUTIONS

by Mansfield Pollard

**“ A comprehensive bespoke acoustic solution for projects of any scale with full in-house design and manufacturing capabilities**

## Attenuation

Our specialist engineers take your noise specification and tailor a bespoke acoustic solution to achieve the specified levels.

From light gauge building service acoustic attenuators to heavy plate fully welded units, our attenuators can be customised to suit any application across the commercial, industrial, power generation and oil, gas and petrochemical markets.



attenuators independently tested to ISO 7235:2

## Louvres, Barriers & Noise Havens

Our acoustic louvres, barriers and noise havens are fully customisable allowing us to create sound reducing designs based on your specifications.

From single and double bank acoustic

louvres, to fully customised noise havens and acoustic cabins, we work closely with OEM's, end users, contractors and consultants, to deliver the most cost-effective and technically compliant acoustic solutions.



acoustic louvres have been independently tested to EN 13030 and ISO 10140

