

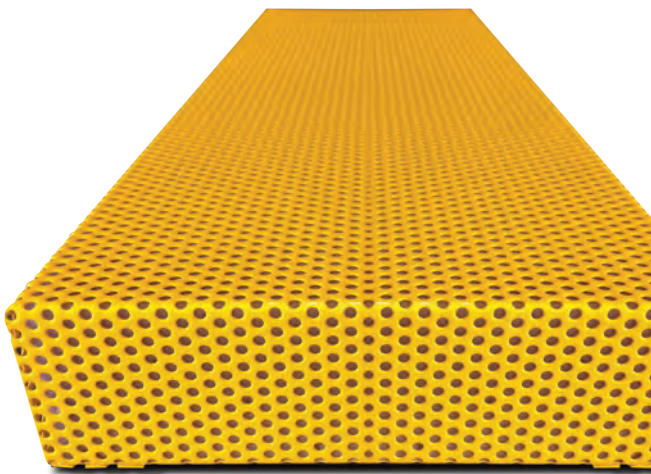
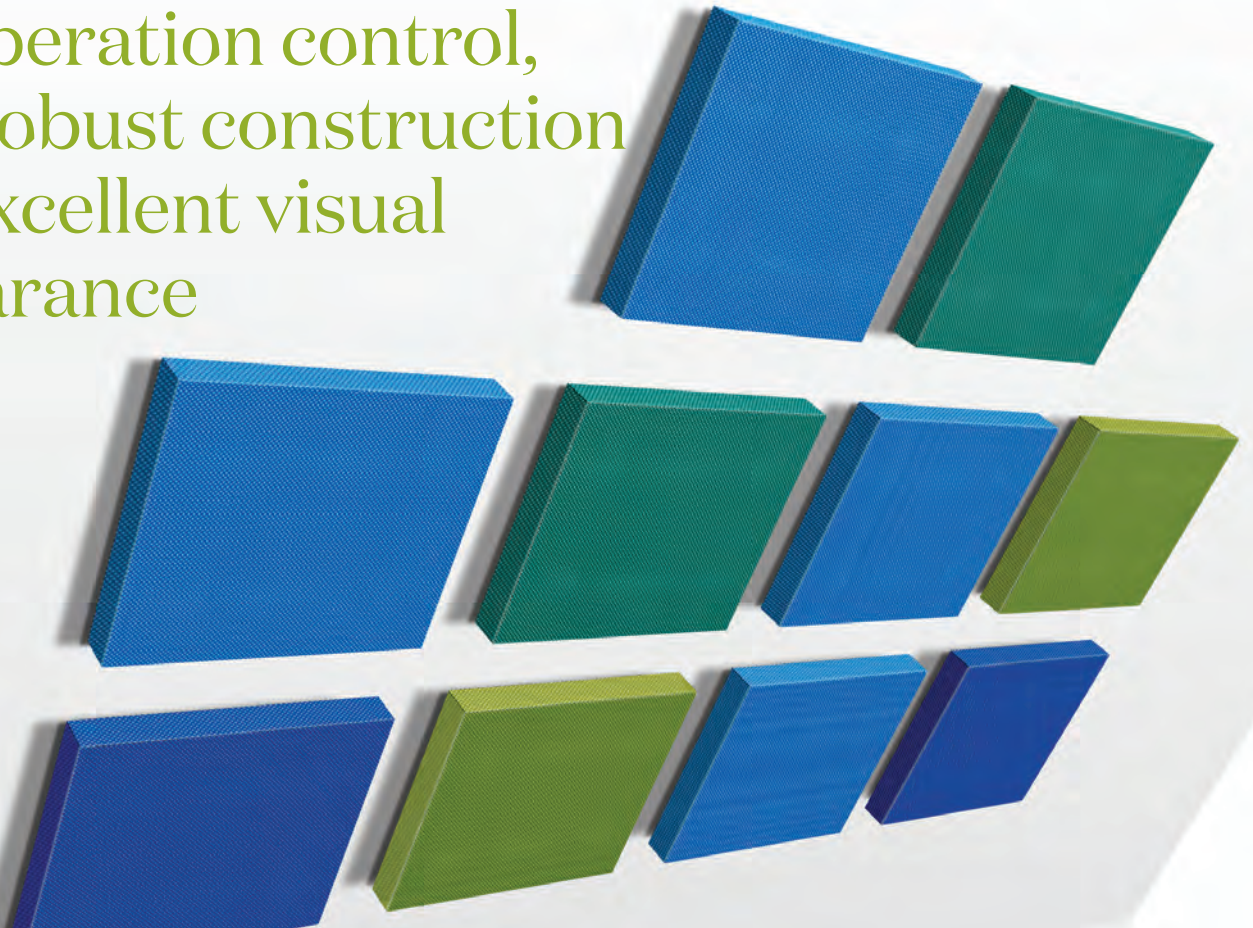


SONATA RHINO

High performance,
perforated metal
absorbers

Uniclass L68161:G332/3	EPIC F851
CI/SfB (4-)	R (P3)

Practical and high-performance
reverberation control,
with robust construction
and excellent visual
appearance



SONATA RHINO BENEFITS:

- Excellent Class A rated sound absorption performance
- High impact resistance - excellent in sports halls
- Robust metal construction
- Tough, wipeable polyester powder-coated finish
- Choice of RAL colour
- Non-shedding foam core
- Ceiling or wall application
- Simple installation
- Great for commercial, industrial, and educational applications

THE PROBLEM:

Reverberation - in extreme cases becoming echo - is a problem in many situations and not least in sports halls, for example, where a high impact resistant absorber is required to survive within the environment.

THE SOLUTION:

Sonata Rhino absorber, is a practical, cost effective way of controlling reverberation, while benefitting from excellent impact resistance and visual appearance.

PRODUCT BENEFITS:

- Excellent Class A rated sound absorption performance
- High impact resistance - excellent in sports halls
- Robust metal construction
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Sonata Rhino is constructed from a perforated metal body with technical acoustic foam cassette insert. The perforated body allows the sound to easily penetrate the foam cassette, to maximise absorption performance.

DIMENSIONS

All dimensions subject to standard manufacturing tolerances. Bespoke sizes can be manufactured on request.

DIMENSIONS:	WIDTH	HEIGHT	DEPTH
Rhino	1000mm	1000mm	50mm
Rhino	1000mm	600mm	50mm
Rhino	1200mm	1000mm	50mm
Rhino	1200mm	600mm	50mm

STANDARD FINISHES

Perforated panel finish: tough polyester powder coat to any RAL colour.



FIRE PROPERTIES

The foam core and panel body both meet the Class 0 requirements of the building regulations when tested to BS476 Part 6 1981 and Part 7 1987. The composite absorbers have not been tested.

FIXING ACCESSORIES

- Rhino Ceiling Suspension pack
- Rhino Wall Brackets
- Button-Fix pack
- Rhino Corner Plates

HANDLING, CARE AND MAINTENANCE

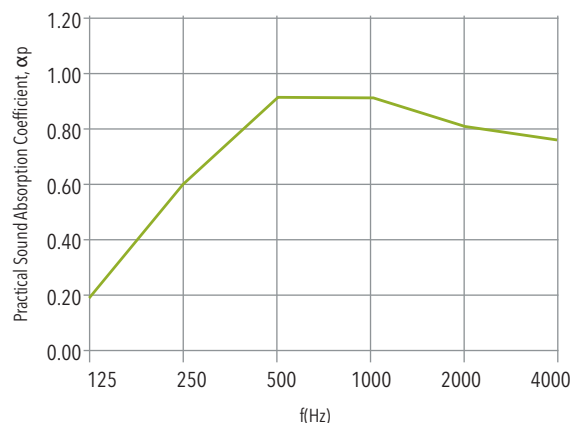
Sonata Rhino absorbers are packed in fully recyclable cartons.

Our standard carton size is approximately 1220mm x 1220mm x 125mm outer dimensions. Cartons may be despatched on non- returnable timber pallets. Palletised cartons should never be double stacked. Cartons are best stored vertically, but if laid flat, stacking should not exceed 8 cartons high. Sonata Rhino absorbers should be stored indoors in the area in which they are to be installed. The in-situ product can be cleaned by wiping down with a damp cloth. For long term maintenance the foam cassette can be removed and replaced if required.



ACOUSTIC PERFORMANCE

Frequency (Hz)	α_p
125	0.20
250	0.60
500	0.90
1000	0.95
2000	0.90
4000	0.80



Absorber Type	Absorber Thickness	α_w	Absorber Class
Sonata Rhino	50mm	0.90	Class A

Test reference number: 780-717 Date: 28/06/2012.
University of Salford Acoustic Test Laboratory.
Tested to BS EN ISO 354:2003 and rated to BS EN ISO 11654:1997.

INSTALLATION GUIDANCE

Ceilings

Dressing the panel

- Insert triangular corner plates **A** into the rear of the Sonata Rhino panel **B**, between the foam core sheet and the perforated metal return. 4 triangular plates required per Rhino panel – one per corner.

- For each corner of the panel, mark three appropriate locations **C** to pilot drill the triangular plate. The easiest way to do this is through two of the perforations at each corner. Once marked, remove all 4 triangular plates and pilot drill with a suitable 3.5mm bit.

- Re-insert the triangular plates into the corner of the Rhino panel, as before, and secure with waferhead screws, screwing into the pilot holes **D**.

- Secure D-rings to the triangular corner plates using waferhead screws **E**. One D-ring is required per corner, two waferhead screws are required per D-ring. Holes are pre-drilled into the triangular corner plates so there is no requirement for pilot holes.

Installing the panel

- Measure distances between each of the D rings and mark onto the required location on the ceiling. Drill four holes into the ceiling/soffit using a suitable 9mm drill bit.

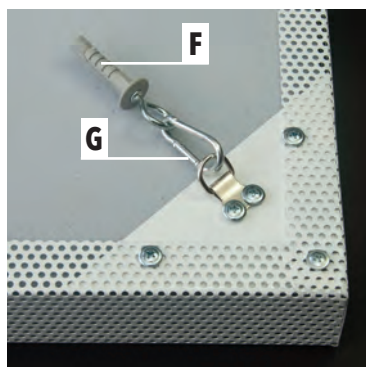
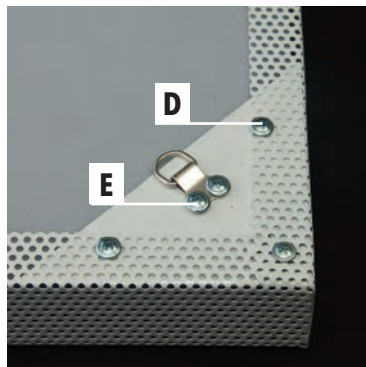
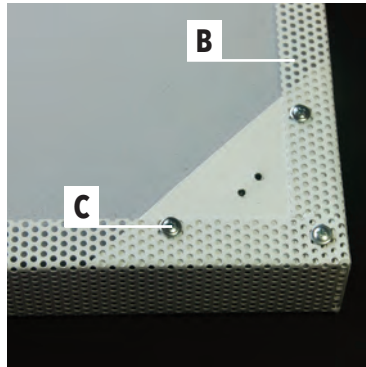
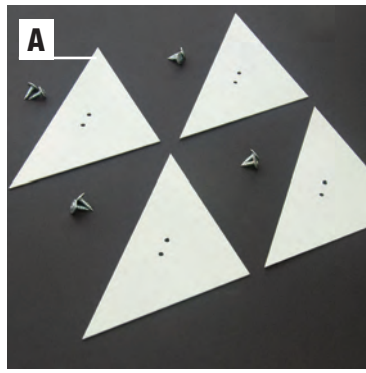
- Insert and tighten the four vine-eye/plug fixings **F** and insert snaphooks into the vine-eyes **G**

- Offer the Sonata Rhino panel up to the locations fixings and connect the snaphooks to the D-rings on the back of the panel to complete installation.

Notes

- Appropriate PPE should be worn at all times when installing Sonata Rhino Panels

- For clarification on any point please contact the SRS Technical Department on 01204 380074.



INSTALLATION GUIDANCE

Plasterboard Walls

Parts required per Sonata Rhino panel:

- 4 x Button Locators (Red) – 1 set required for whole installation
- 4 x Button-Fix carriers
- 4 x Buttons (Green)
- 20 x 4.2 x 13mm Wafer head screws
- 4 x Fischer SBN 9/4 Fixings (alternative fixings may be required for masonry walls)
- 4 x Rhino Corner Plates

Tools Required:

- Electric Drill/Driver
- Suitable 9mm Drill bit
- Philips head screwdriver bit (or manual screwdriver) Spirit level

Method:

- Fix triangular a metal corner **A** to each of the 4 corners of the Sonata Rhino panel with waferhead screws, 3 screws per corner.

- Fit a Button-Fix carrier **B** each of the 4 triangle corners using waferhead screws. All the Button-Fix carriers should be the same way up.

- Insert a red button locator **C** into each of the 4 Button-fix carriers.

- Offer the Sonata Rhino panel to the wall in desired location, using a spirit level to ensure the it is correctly orientated

- Tap each corner of the Sonata Rhino panel with hand so that the Button Locator marks the surface of the wall **D**
- Remove Sonata Rhino panel away from wall and remove the Button Locators from the Button-Fix carriers

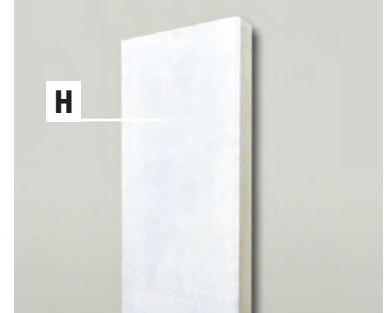
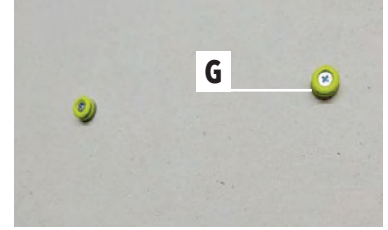
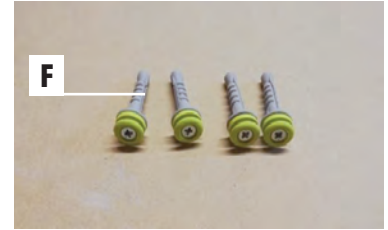
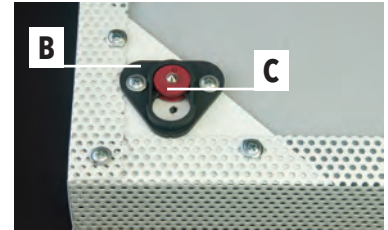
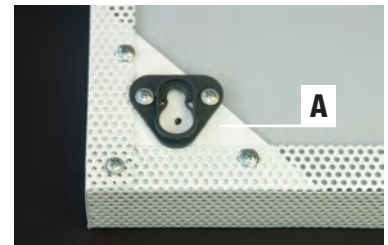
- Drill holes in the wall at the marked locations with 9mm drill bit **E**

- Place screws from the Fischer SBN 9/4 Fixing through the green buttons and then into the plastic jackets, as shown **F**

- Insert the fixings into the walls and tighten with screwdriver **G**

The Sonata Rhino panel can now be located onto the buttons on the wall.

- The Sonata Rhino panel is secured in place by pushing it downwards so that the buttons on the wall click into the Button-Fix carriers on the back of the Sonata Rhino panel **H**



INSTALLATION GUIDANCE

Wall Bracket Fixing

- A Fix universal reversible brackets (See **Setting Out** below)
- B Hook Rhino rear bottom flange with bottom bracket and lift to engage
- A Push Rhino back to wall so rear top edge hangs over top bracket, then pull down gently but firmly to complete

Top bracket



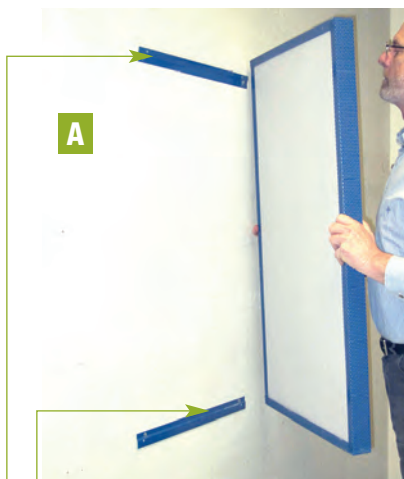
Bottom bracket



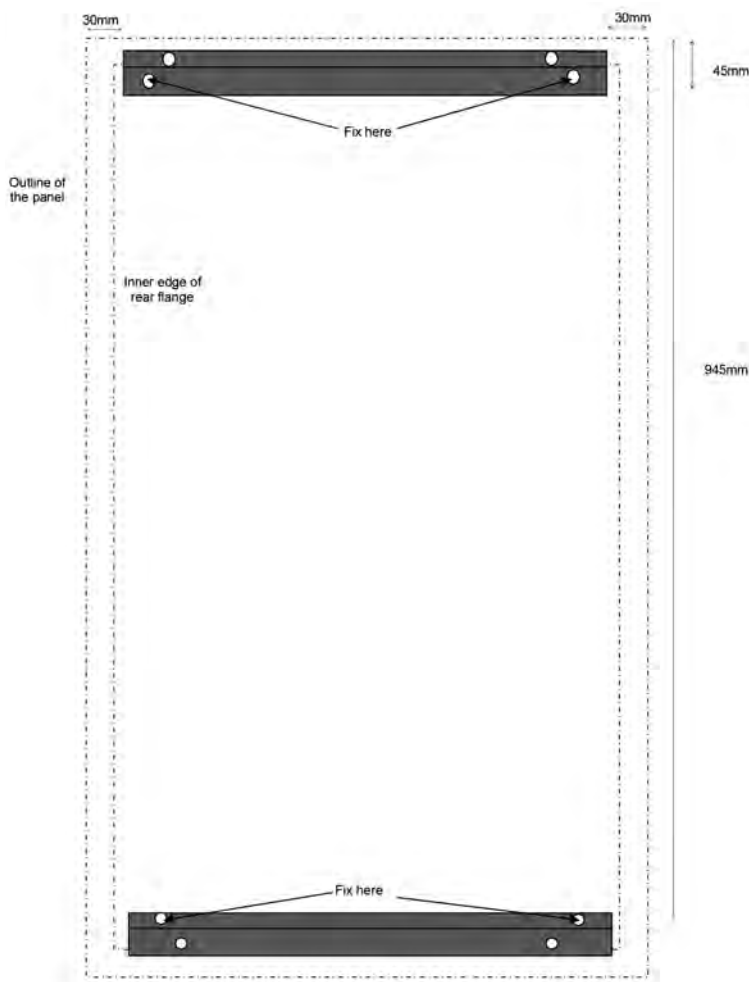
Setting Out

(1000mm high x 600mm wide)

- 1 Decide on position of Rhino and mark wall where top & sides edges are required
- 2 Bracket is 60mm shorter than the Rhino width so, you will be centring the bracket 30mm in from the Rhino edge position
- 3 Measure 45mm down from Rhino top edge position; fix bottom of top bracket on this line
- 4 Measure 945mm down from Rhino top edge position; fix top of bottom bracket on this line, bracket ends in line with top bracket
5. Hang as illustrated.



Sonata Rhino Acoustic Absorber Panel: Bracket Locations for a 1000mm x 600mm panel



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