

Install Guide

Modulo[®] Acoustic

The prefinished Group 1 tongue and groove system for acoustic performance, superior fire protection and aesthetics.





Modulo® Acoustic
ceiling installation

Modulo® Acoustic Installation Guide

Suitable Applications

Modulo® Acoustic (PAT. PENDING) tongue and groove is manufactured from aluminium and is suitable for internal ceiling, curves and wall applications. It is not warranted for use in external areas.

Modulo® Acoustic is a Group 1 fire rated product designed to meet the requirements of almost any commercial interior application where reverberation control is paramount, without compromise.

Before you begin

Fixing

- Modulo® Acoustic is designed as a tongue and groove panel system which allows for a concealed fix to any metal top hat or furring channel. There is a screw flute for a 6g countersunk screw extruded the length of each panel for fixing at any intersection with a structural member.

Curving

- Modulo® Acoustic can be installed on both internal and external curves with a radius up to 300mm.
- Curving can be achieved by using discreet fixings through the perforations and manipulating to the desired radius during install.
- For tight radiuses clamping on a bench and manipulating the profile to the desired radius before install may be beneficial.

Cutting

- The Modulo® Acoustic sections can be cut to size using a panel saw or track saw with a suitable aluminium blade.
- Flats on the back of the profile allow for adhesive fixing when profiles require cutting to fit the space.

Profile Weights

- For Modulo® Acoustic profile weights, please allow 10.5kg/m² when calculating load capacities.
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Flat Wall Installation

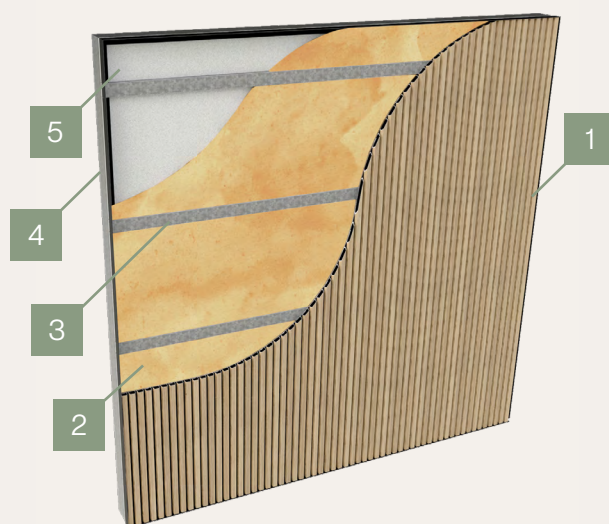
Modulo® Acoustic

Recommended Flat Wall Installation Process

You will need:

- Modulo® Acoustic in your specified lengths including wastage
- Top hat, furring channel or battens
- Aluminium trims for top and bottom edges (if required)
- Start trim (if required)
- Measuring device
- Level
- Panel saw or track saw with a suitable aluminium blade
- 6g countersunk screws
- Construction adhesive
- Acoustic batts

Figure 1. Cross section of Modulo® Acoustic wall installation



- 1 Modulo® Acoustic lining
- 2 Acoustic insulation as tested
- 3 Top hat
- 4 Aluminium trim (if required)
- 5 Sound transmission barrier (e.g. plasterboard/masonry)

Simple Steps for Flat Wall Installation

Step 1

Ensure the prepared wall surface is true and plumb. Ensure protective packaging is removed from Modulo® Acoustic before installing.

Step 2

Fix top hat or battens at the top and bottom of the wall at the heights where the panels are to be installed. (See fig.2)

Step 3

In addition to top and bottom, install additional top hat parallel to the top and bottom channels at a maximum distance of 600mm. (See fig.2)

Step 4

If installing top and bottom aluminium trims, install the bottom trim allowing for the desired shadow line spacing (if applicable). (See fig.2)

Step 5

Install the optional start trim (or screw fix the first panel) to the top hat ensuring it is plumb. (See fig.2)

Figure 2. Top hat at 600mm apart, aluminium trim and start trim



- 1 Spacing for top hat or battens
- 2 Acoustic insulation as tested
- 3 Top hat
- 4 Aluminium trim (if required)
- 5 Start trim (optional)

Simple Steps for Flat Wall Installation

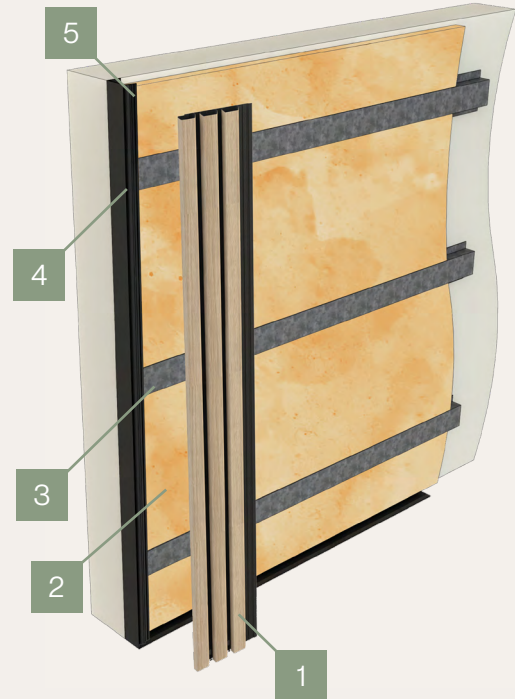
Step 6

Screw fix each section through each tongue where it intersects the furring channel or battens. Pre-drilling may be required. (See fig.4)

Step 7

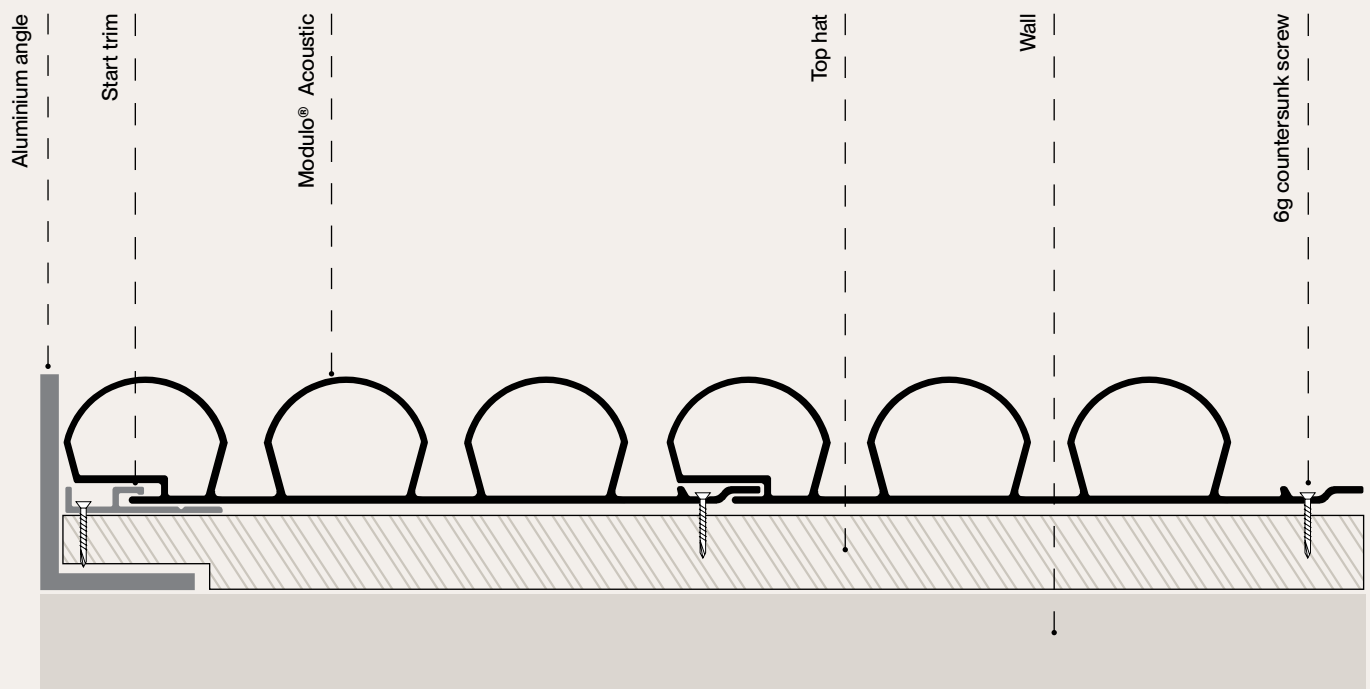
Continue fixing each section. (See fig.5)

Figure 3. Installing first Modulo® Acoustic panel



- 1 Modulo® Acoustic lining
- 2 Top hat
- 3 Acoustic insulation as tested
- 4 Start trim (optional)
- 5 Aluminium trim (if required)

Figure 4. Section view of concealed screw installation of Modulo® Acoustic



Simple Steps for Flat Wall Installation

Step 8

At the end of the run, the last piece may need to be cut at a specific width using a panel saw or track saw with an appropriate aluminium blade and safety measures in place.

Construction adhesive may need to be applied to the back of the last panel in conjunction with fixings through the perforated slots in the panel. (See fig.6)

Where using construction adhesive it is recommended the acoustic lining is cut out on the back of the battens (not perforations) to give a direct bond to the aluminium.

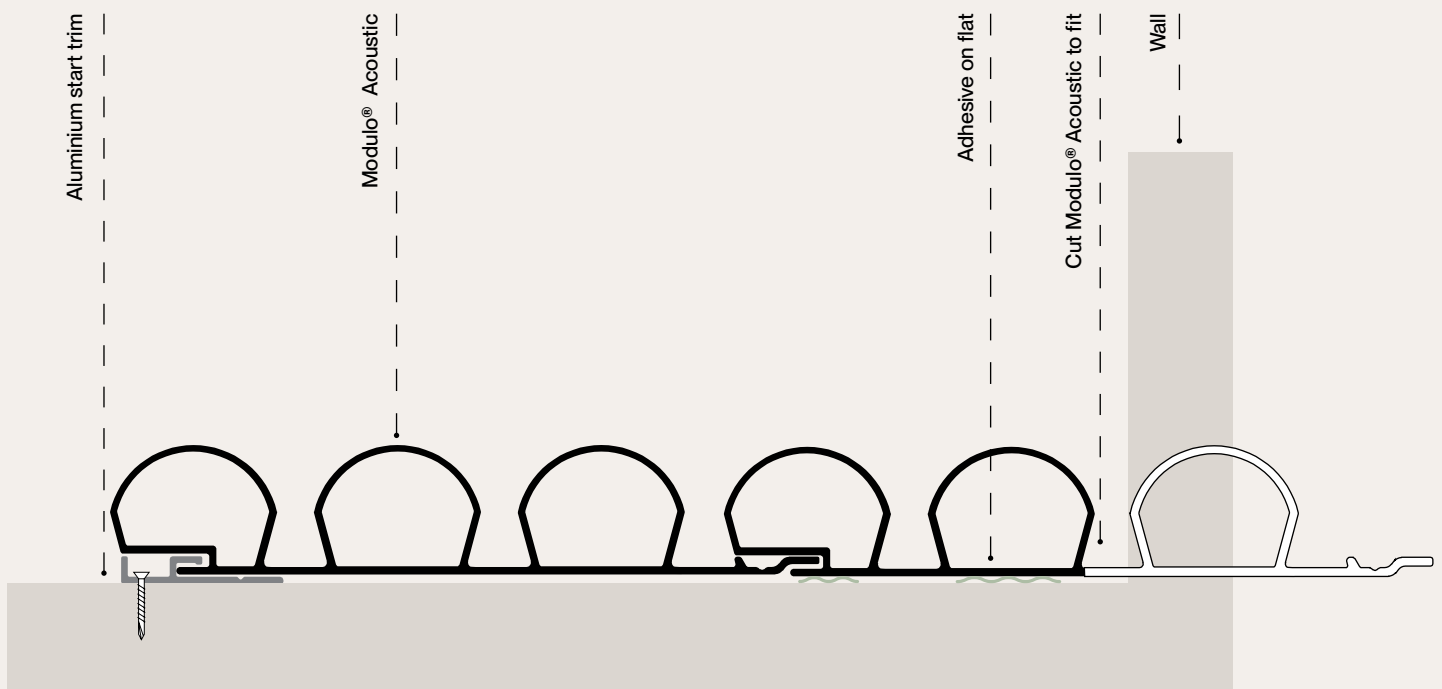
Step 9

Wipe down with a clean damp cloth.

Figure 5. Continue fixing Modulo® Acoustic



Figure 6. Section view of cuts and adhesive example



Curved Wall Installation Modulo® Acoustic

Recommended Curved Wall Installation Process

You will need:

- Modulo® Acoustic in your specified lengths including wastage
- Top hat, furring channel or battens
- Aluminium trims for top and bottom edges (if required)
- Start trim (if required)
- Measuring device
- Level
- Panel saw or track saw with a suitable aluminium blade
- 6g countersunk screws
- Construction adhesive
- Acoustic batts
- Bench clamp may be beneficial for tight radiuses

Step 1

Ensure protective packaging is removed from Modulo® Acoustic before installing.

Step 2

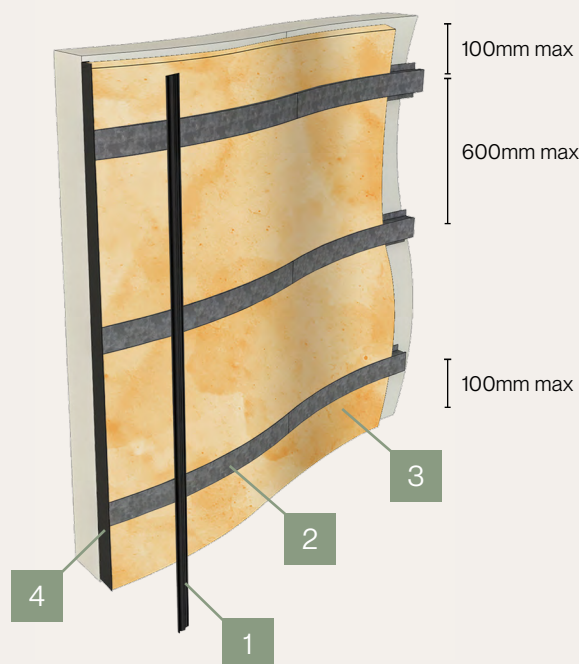
Fix top hat or battens at the top and bottom of the wall at the heights where the Modulo® Acoustic is to be installed. (See fig.7)

Step 3

Install additional top hat parallel to the top and bottom channels at a maximum distance of 600mm. (See fig.7)

- 1 Start trim (optional)
- 2 Top hat
- 3 Acoustic insulation as tested
- 4 Aluminium trim (if required)

Figure 7. Top hat at 600mm apart, aluminium trim and start trim



Curved Wall Installation

Modulo® Acoustic

Step 4

If installing top and bottom aluminium trims, install the bottom trim allowing for the desired shadow line spacing (if applicable).

Step 5

Install the optional start trim (or screw fix the first panel) to the top hat ensuring it is plumb. (See fig.8)

Step 6

Manipulate the Modulo® Acoustic to the desired radius (up to 300mm) by using discreet fixings through the perforations. If necessary, clamping on a bench and manipulating the profile may be beneficial prior to installing.

Step 7

Continue fixing each section. (See fig.9)

Step 8

At the end of the run, the last piece may need to be cut at a specific width using a panel saw or track saw with an appropriate aluminium blade and safety measures in place.

Construction adhesive may need to be applied to the back of the last panel in conjunction with fixings through the perforated slots in the panel.

Where using construction adhesive, it is recommended the acoustic lining is cut out on the back of the battens (not perforations) to give a direct bond to the aluminium.

Step 9

Wipe down with a clean damp cloth.

Figure 8. Installing first Modulo® Acoustic

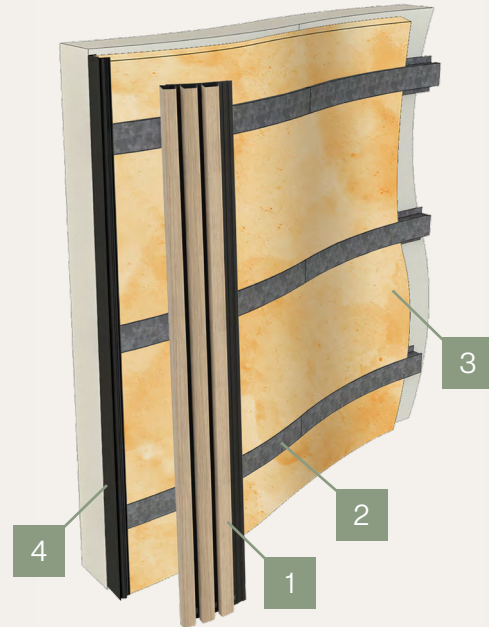
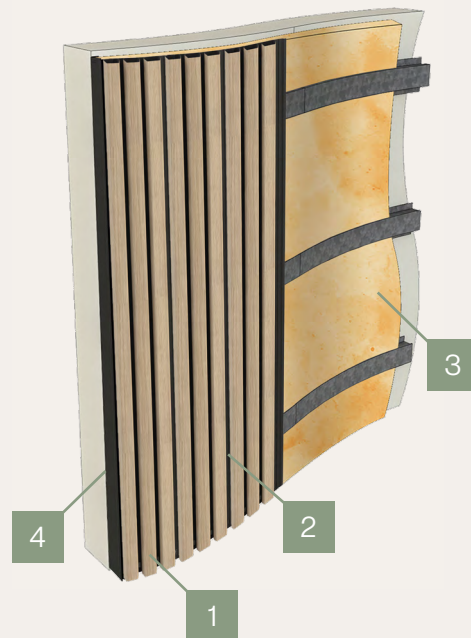


Figure 9. Manipulate to desired radius using discreet fixings



- 1 Modulo® Acoustic lining
- 2 Top hat
- 3 Acoustic insulation as tested
- 4 Aluminium trim, if required

Ceiling Installation

Modulo® Acoustic

Recommended Ceiling Installation Process

You will need:

- Modulo® Acoustic in your specified lengths including wastage
- Top hat, furring channel or battens
- Aluminium trims for top and bottom edges
- Start trim
- Measuring device
- Level
- Panel saw or track saw with aluminium blade
- Screws
- Construction adhesive
- Acoustic batts

Figure 10. Typical suspended ceiling detail



Simple Steps for Ceiling Installation

Ceiling Preparation

Step 1

Ensure the ceiling is true and the variation is no greater than 3mm per metre.

Step 2

If installing on a suspended ceiling the Modulo® Acoustic panels are installed in the same direction as the TCR and fixed off where it intersects the furring channel. For direct fix ceilings, fix the top hat in the opposite direction to the Modulo® Acoustic panels. (See fig.11)

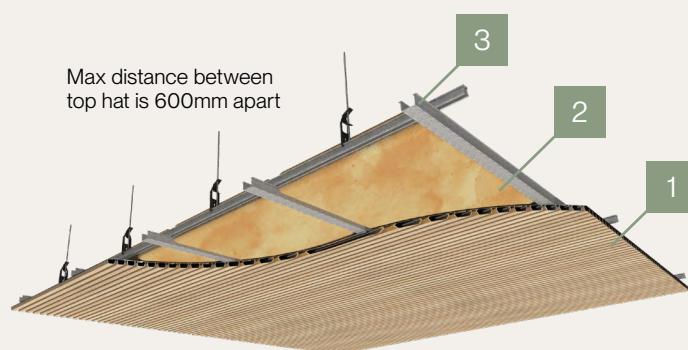
Step 3

The furring channel or top hat should be placed within 200mm of the walls and at a maximum of 600mm centres.

Step 4

A shadowline angle is a common detail used around the perimeter and this should be fixed to the wall at the nominated height prior to installing the panels. (See fig.14, page 13)

Figure 11. Typical suspended ceiling detail



- 1 Modulo® Acoustic lining
- 2 Acoustic insulation as tested
- 3 Furring channel/top hat

Simple Steps for Ceiling Installation

Ceiling Installation

Step 1

Fix the first panel in position either using a start trim (optional) or by discreet face fix through the perforated profile. (See fig.12)

Step 2

Slot the groove of the first board into the start trim and fix through the tongue using an appropriate 6g screw. Screw fix each section through each tongue where it intersects the top hat. Pre-drilling may be required. (See fig.13, page 15)

Step 3

Continue fixing the Modulo® Acoustic panels across the ceiling. (See fig.12)

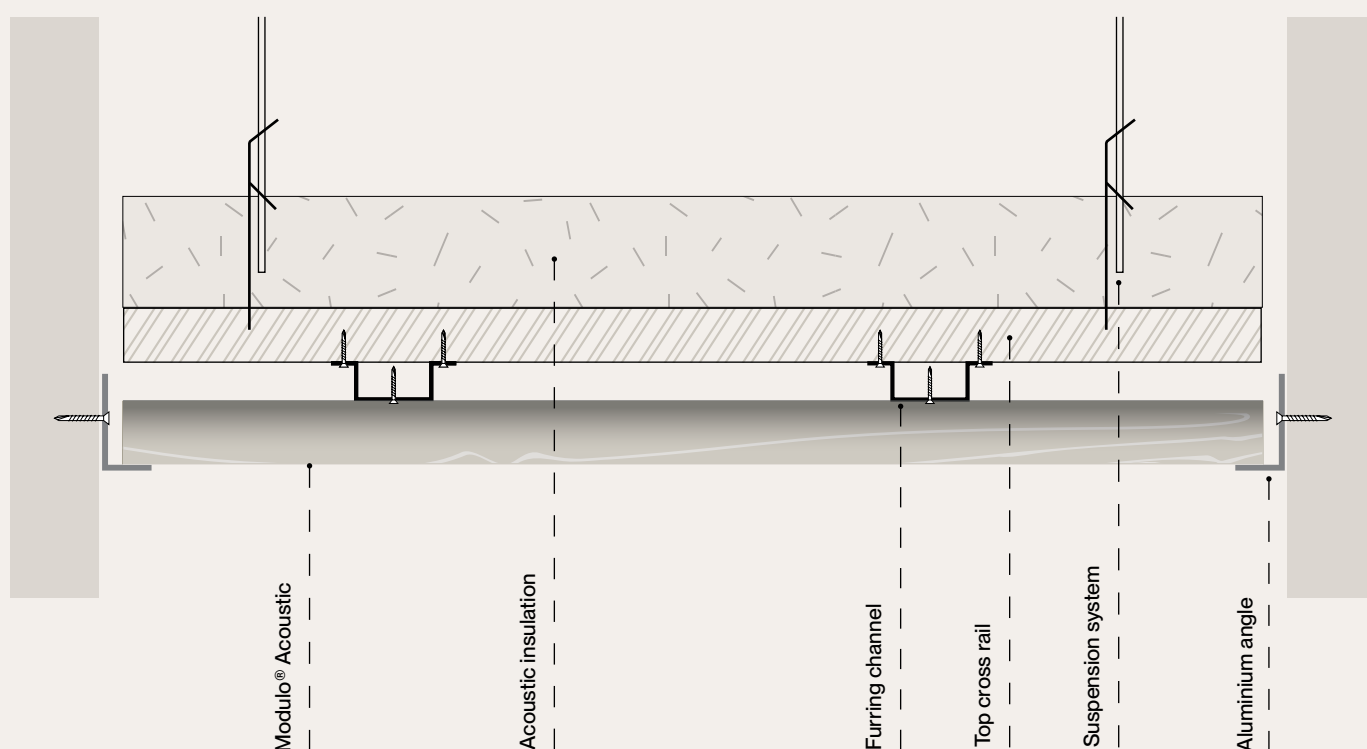
Step 4

The final panel will need to be fixed using a combination of construction adhesive and a discreet fixing through the perforated section of the profile. (See fig.12)

Step 5

Wipe down with a clean, damp cloth.

Figure 12. Suspended ceiling cross section at 90°, aluminium angle fixed to wall



Additional Views

Ceiling Installation

Figure 13. Suspended ceiling cross section

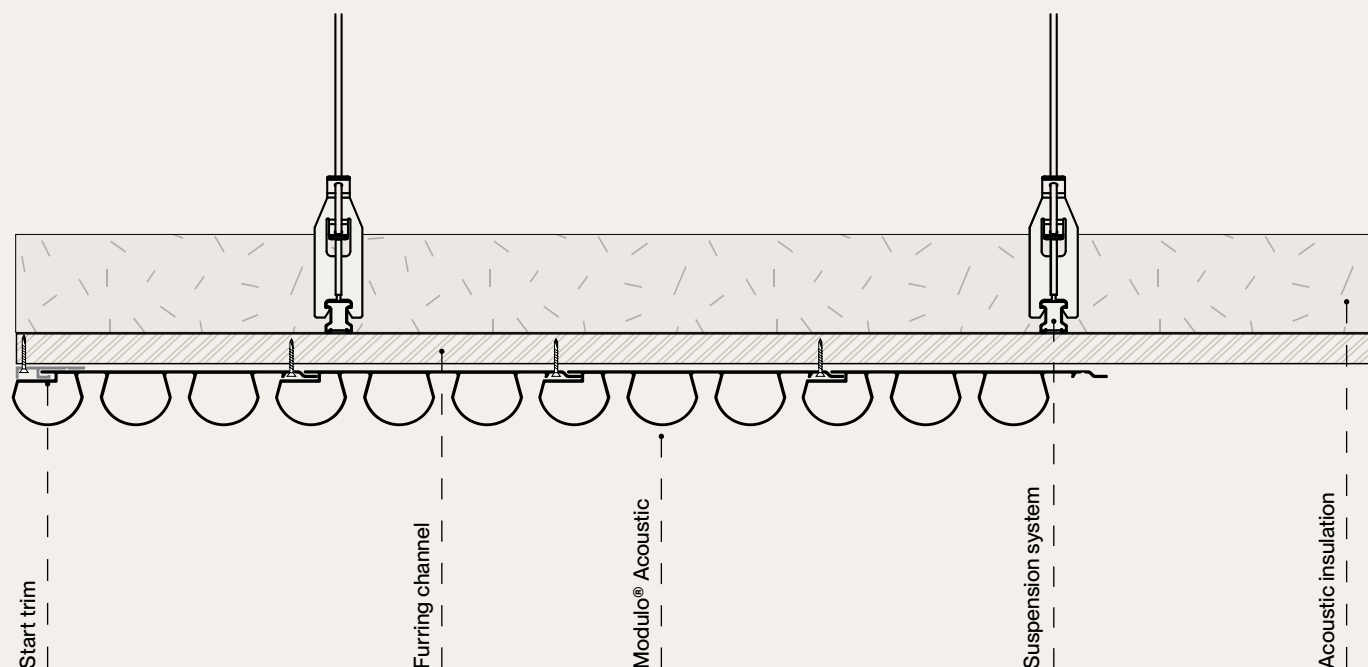
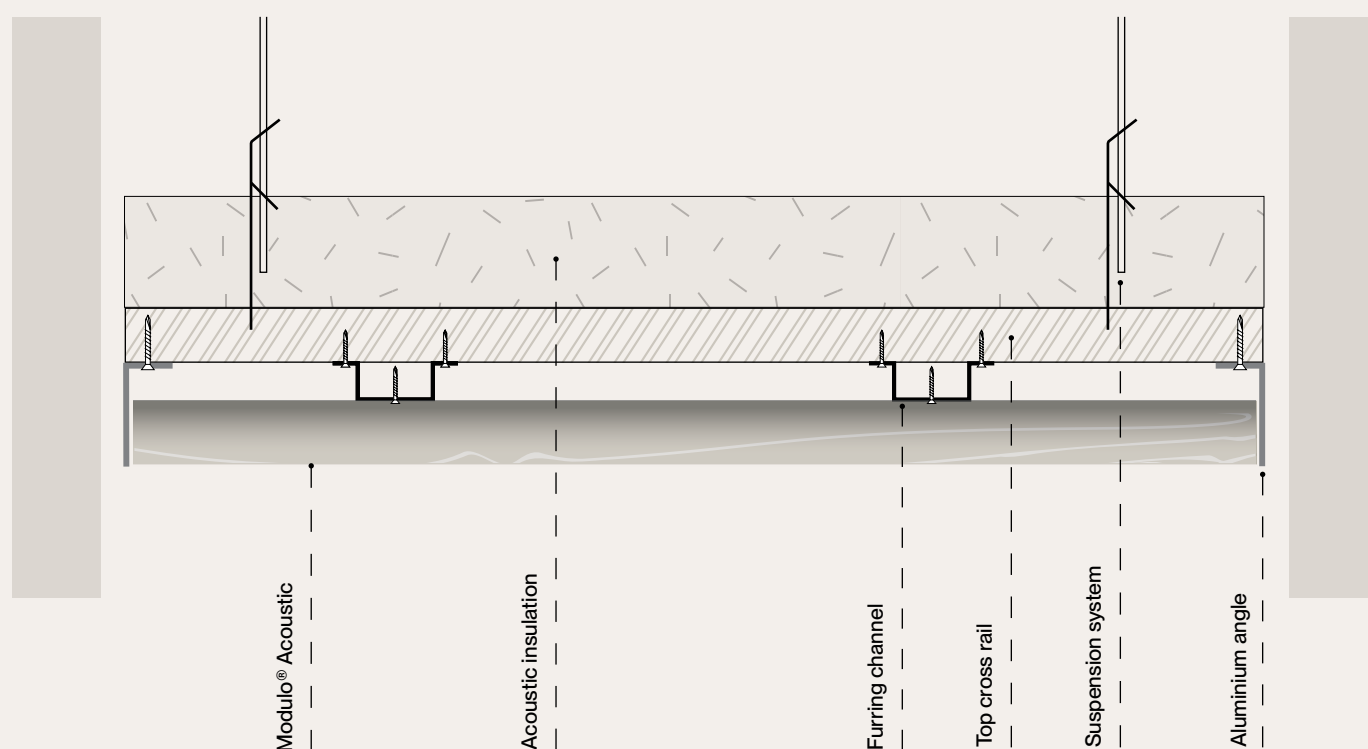


Figure 14. Exaple of suspended ceiling cross section at 90°, aluminium angle fixed to top cross rail for shadowline detail



Care and Maintenance Guide

Recommended cleaning method

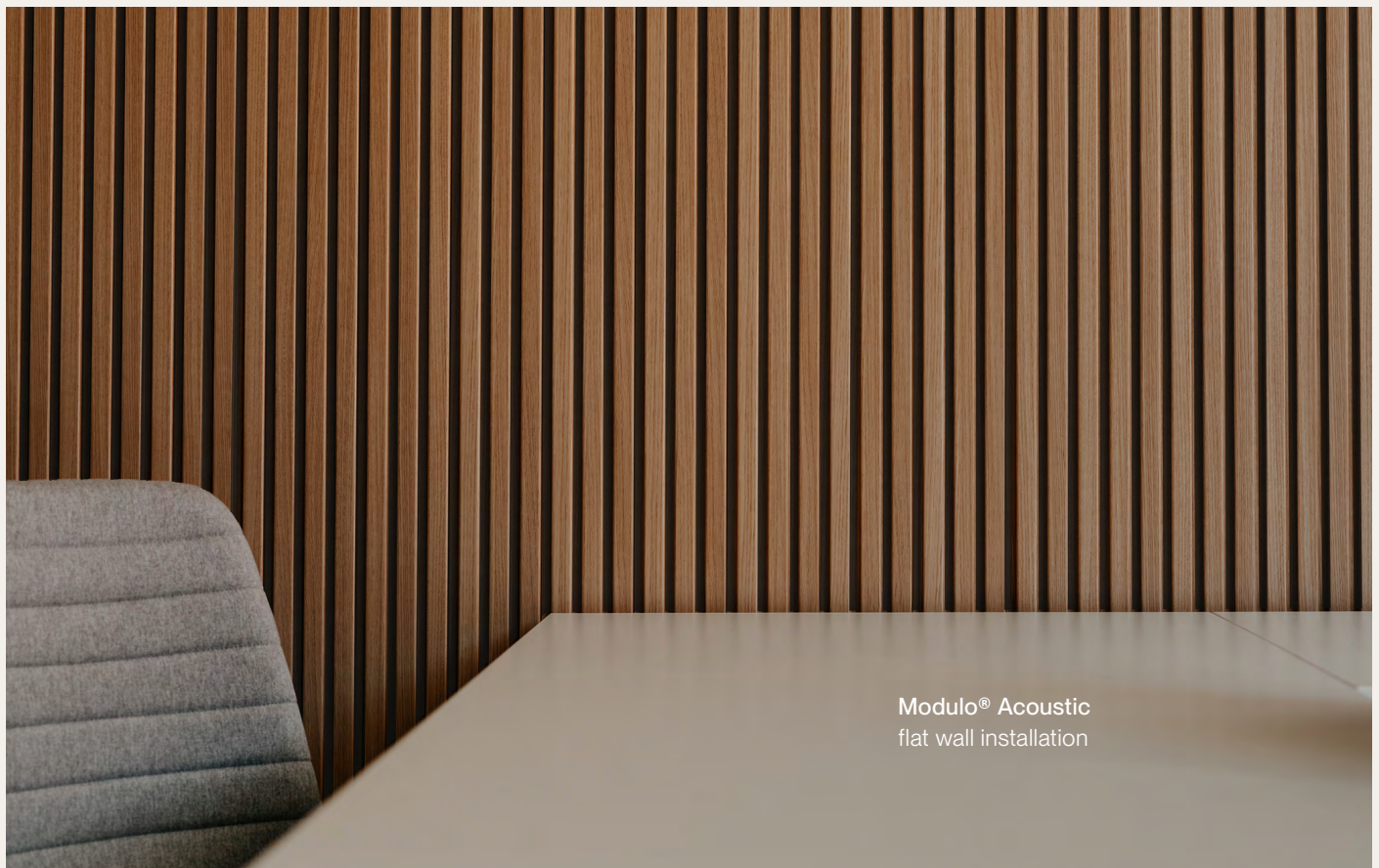
NAVURBAN™ surfaces are easy to clean using a damp cloth and mild soap and warm water or non-abrasive wood cleaning products.

- Do not use abrasive cleaners, pads, or harsh solvents.
- Ensure to wipe in the direction of the grain structure for best results.

We recommend you test on a small area or sample prior to applying to surface.

- Do not allow and solvent, acetone or trichloroethylene to come in contact with the surface.
- Accidental spills, splatters or over sprays should be wiped off immediately with a soft cloth and mild soap.
- Alcohol, ammonia and other light solvents may be used for tougher stains.

If in doubt about a particular cleaner or detergent, please reach out to your designated representative to assist with suitability.



Modulo® Acoustic
flat wall installation



**SCREEN
WOOD**

Need guidance and advice?
We're ready to help.

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Be inspired

Explore our product innovations and
get inspired at **screenwood.com.au**

Acknowledgement of Country

In the spirit of reconciliation, we acknowledge the Traditional Custodians of Country throughout Australia and their connections to land, sea and community. We pay our respect to their Elders past and present and extend that respect to all Aboriginal and Torres Strait Islander peoples today.

Screenwood for all

Our products are for everyone, and so is our workplace. We believe in constantly building a diverse and inclusive culture for a more equitable world.

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