sonawood™ slat

LINEAR SLAT WOOD PANELS FOR CEILINGS AND WALLS

TECHNICAL DATA SHEET BPIR - CLASS 1

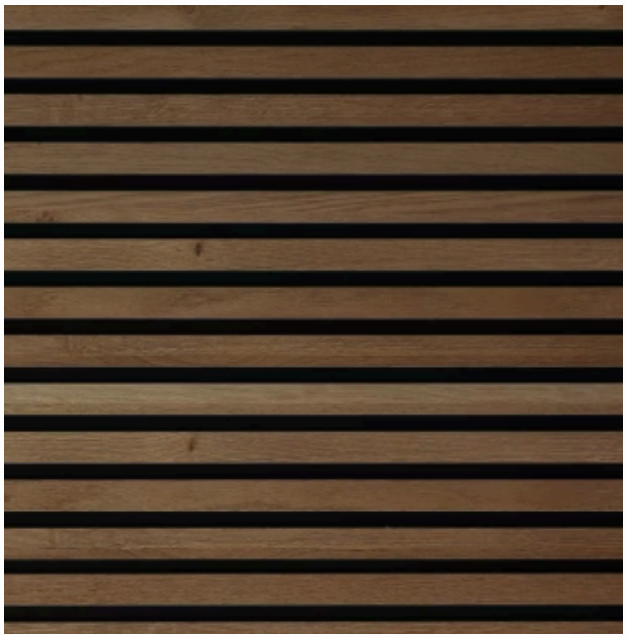
Acoustic Ceiling and Wall Solutions

sonawood slat™

Slat Wood Panels for Ceilings and Walls

Technical Data Sheet - BPIR Class 1

Sonawood™ Slat is a made in NZ wood slat panel designed to provide a linear aesthetic and to control unwanted noise in interior spaces. Panels may be customised according to substrate, decorative veneer finish, acoustic performance and sized to meet individual project requirements.



Application

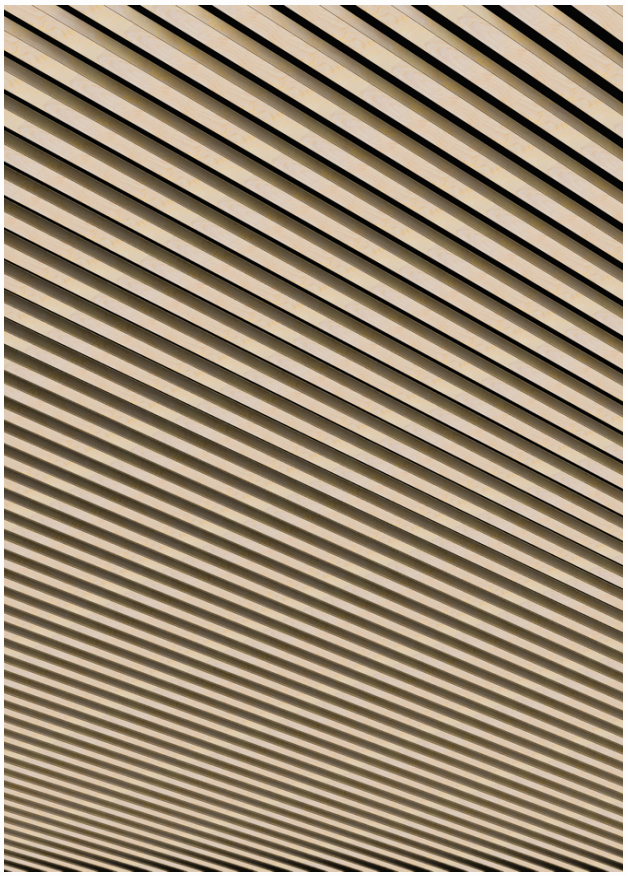
Sonawood™ Slat is ideal for corporate offices, hotels, retail, schools and sports centres.

Composition

Substrates are from FR MDF, MDF, Plywood, or FR Plywood, with natural wood veneer, low pressure laminates, paint, stain or clear coat finishes, and acoustic backing.

Features & Benefits

- Linear aesthetic and available in a range of standard slat and slot widths to meet acoustic performance criteria.
- Custom slot perforations with micro bevel edge are available as a H & S risk management option for acoustic wall linings subject to soft body impacts such as sports halls.
- Range of substrates—FR MDF, FR Plywood, or standard MDF or Plywood, all acoustic tissue backed as standard.
- Pre-finished low pressure laminate finishes provide excellent colour and pattern consistency at lower cost.
- Natural veneer and plywood options with clear coat finish.
- Fire Group 3, 2-S, 1-S performance subject to substrate and slot open area selected.
- Tuneable acoustic performance, open area 2.5 - 33%.
- Also available as a lay-in ceiling tile to fit Rondo DX grid.
- Range of fixing options, face fix, semi - concealed fix, split rail (walls).
- Asona in-house design service for shop drawings prior to manufacture.



LPL/veneer over MDF core

ISO 9001:2015 Registered Firm No. NZ1014
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Ref. Sonawood Slat-26.10

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Sonawood Panel Selection Options

Early Fire Reaction Group	1-S / 2-S / 3
Substrate Type	MDF / Black FR MDF / FR MDF / Plywood / FR Plywood
Standard Finish	Low Pressure Laminate (LPL)
Other Finishes	Natural wood veneer / Paint / Stain / Clear coat
Panel Size (nominal)	600* x 2400 / 1200* x 2400mm
Installation Method	Screw fixed to nog/batten/furring channel

* Actual panel width size will vary depending on slot/slat combination

NZBC C/AS2 Risk Groups and EFR Group Requirements

4.12.1 Surface finish requirements for walls and ceilings

4.12.1.1 *Surface finish* requirements shall be as specified in Table 4.12.1.1 for walls and ceilings.

Table 4.12.1.1: Maximum permitted Group Number for internal surface finishes

Paragraph 4.12.1.1

Location in the building	Maximum permitted Group Number for spaces not protected with an automatic fire sprinkler system	Maximum permitted Group Number for spaces protected with an automatic fire sprinkler system	Risk Group
Exitways and Importance Level 4 *buildings*: walls and ceilings	1-S	2	SM SI CA WB
Sleeping spaces where care or detention is provided: walls and ceilings	1-S	2	SI
Other sleeping spaces (excluding within *household units*) and crowd spaces: ceiling surfaces	2-S	2	SM CA WB
Other sleeping spaces (excluding within *household units*) and crowd spaces: wall surfaces	2-S	3	SM CA WB
All other occupied spaces: walls and ceilings	3	3	CA WB

Clause
4.12 Interior surface finishes, floor coverings and suspended flexible fabrics

Surface finish requirements for walls and ceilings

4.12.1 Surface finish requirements shall be as specified in Table 4.12.1.1 for walls and ceilings.

4.12.4 Exceptions to surface finish requirements

4.12.4.1 Surface finish requirements do not apply to:
a) Small areas of non-conforming product within a firecell with a total aggregate surface not more than 5.0 m².

Educational buildings

4.12.4.2 Unsprinklered firecells containing classrooms, passageways and corridors of educational buildings need not comply with Table 4.12.1.1 provided all the following conditions are satisfied:
a) The occupant load is less than 250, and
b) The firecells are at ground floor level and are served by at least two exitways or final exits, and
c) The material Group Number is no more than 2-S for surfaces 1.2m or more above floor level, and
d) The material Group Number is no more than 3 for surfaces less than 1.2 m above floor level.

Sonawood finishes Group Number

Substrate	Finish	Perforated	Non-perforated
MDF	Laminate (LPL)	3	3
	Natural veneer	3	3
	Paint[1]	3	3
FR MDF Black	Laminate (LPL)	2-S	1-S
	Natural veneer	TBC	1-S
	Paint[1]	2-S	1-S
FR MDF	Laminate (LPL)	2-S	1-S
	Natural veneer	TBC	1-S
	Paint[1]	2-S	1-S
Plywood	Natural	3	3
	Coatings[2]	3	3
	Stain	3	3
FR Plywood	Poplar	1-S	1-S

[1] Paint option includes powder coated or wet
[2] Coatings include clear, UV
Intumescent also available which will provide a 1-S

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Finish Options

Substrate Type

MDF

Black FR MDF

FR MDF MR

Plywood

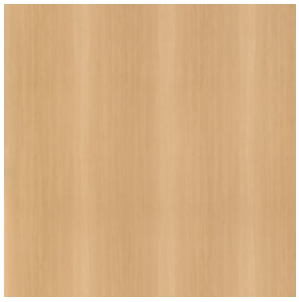
Finish Type

Low Pressure Laminates—wood look or solid colours available* (refer to Asona for full range)

Nordic Pine

Premium Oak

Tawa



French Oak

Sovereign Oak

Rimu

Tahoe Walnut

Black Forest Oak

Standard Substrate Size

Panels are machined from substrates to 2397 x 597^mm for a nominal 2400 x 600mm panel with allowance for 3mm gap between panel ends.

Nominal sizes:
600^ x 2400mm, 600^ x 2700mm.
1200^ x 2400mm to order & extra handling care required

^ Actual panel width size will vary depending on slot/slat width combinations.

Thickness:
12mm, others to order, consult Asona
13mm for natural wood veneers
18mm available for wall mounting

* LPL colour representations are as close as printing permits.
For natural veneers, clear coat and intumescent coating may affect final colour. Always make your colour selections from an actual sample, not from a digital screen.

Natural wood veneers—wide range available, contact Asona. (Supplied precoated clear. May be supplied “raw” for site intumescent coating.)

Painted and stained finishes—wide range available, contact Asona. (Paint finish suitable for MDF only; Stain finish suitable for Veneer and Plywood only)

NOTE: Material type and wood species selection may affect surface finish and surface chipping on plywood. FR Plywood available in Poplar wood species only. Consult Asona prior to specification.

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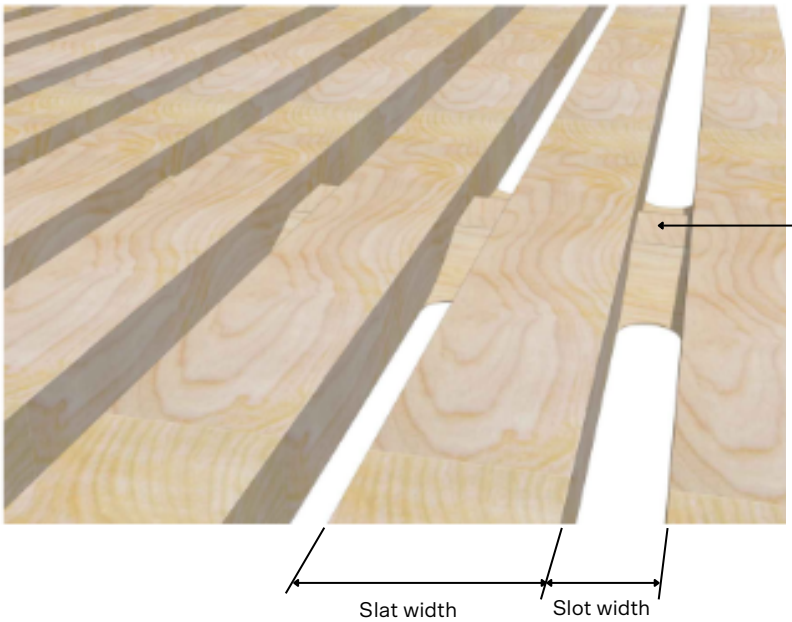
Slat Patterns

*As viewed with panel landscape orientation

SLOT CENTRES

		32mm		64mm		128mm	
		Slat Width	% Open Area	Slat Width	% Open Area	Slat Width	% Open Area
SLOT WIDTH	3.5mm	28.5	9.80	60.5	5	124.5	2.5
	6mm	26	16.80	58	8.40	122	4.20
	8mm	24	22.5	56	11.25	120	5.6
	10mm	22	28	54	14	118	7
	12mm	20	33	52	16.8	116	8.4



Fixing bridges are at 400mm centres.
Screw fix at:

- 192mm centers for 32/64mm slot spacing
- 256mm centres for 128mm slot spacing.

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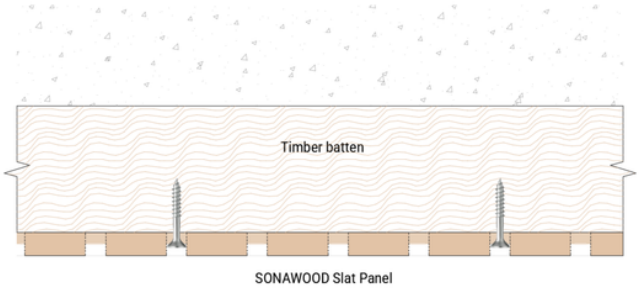
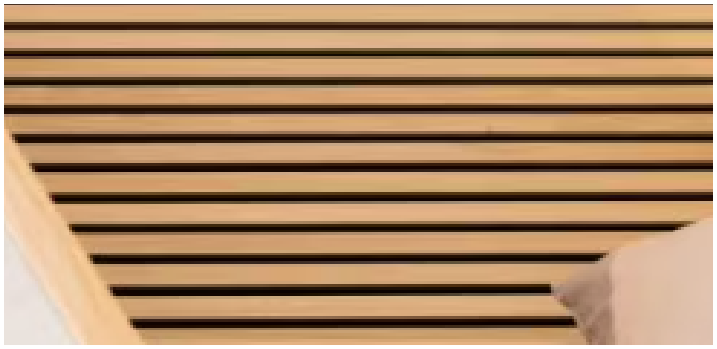
Installation Options

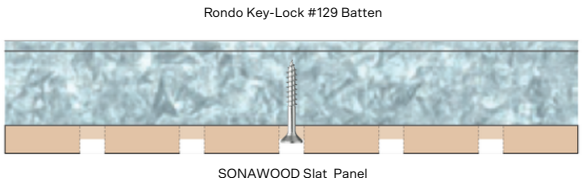
Semi-concealed fix through fixing bridge with countersunk screws at 192/256mm centres to timber batten at 400mm centres, (not suitable for 3.5mm slot width)



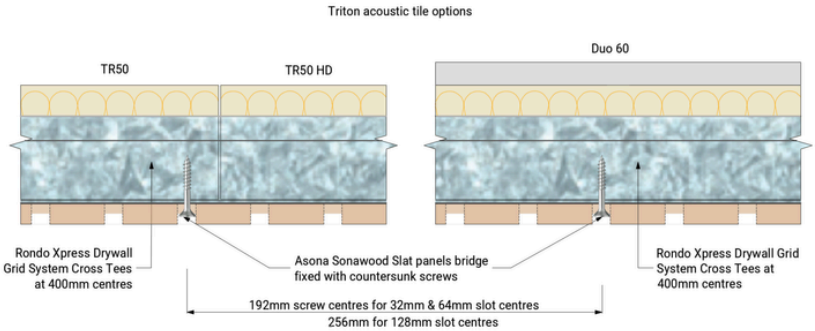


LPL/veneer over black FR MDF core

Semi-concealed fix through fixing bridge with countersunk screws at 192/256mm centres to Rondo KEY-LOCK® furring channel/batten at 400mm centres, (not suitable for 3.5mm slot width)



Semi-concealed fix through fixing bridge with countersunk screws at 192/256mm centres to Rondo Xpress® Cross Tees at 400mm centres, (not suitable for 3.5mm slot width)



Technical Specifications

Finishes: All panel types

Pre-finished in a range of decorative LPL surface finishes, natural veneers with clear coat, or stain. FR Plywood available in Poplar wood species only.

Limitations:

- For interior use only, and not in direct contact with moisture or in extreme humidity conditions.
- Maximum humidity/temperature 90% R/H at 30°C.
- Maximum weight that can be directly integrated into the ceiling eg: lighting, A/C grill, speakers etc, shall not exceed 1.5kg. Greater weights shall be independently supported.
- Plywood types may be limited by the ply lamination process and acceptable machinability quality. Do not butt panels edge to edge. Lead times apply, contact Asona.
- Not suitable for low level walls in high impact sports halls. Select 18mm Sonawood panels. Select optional micro bevel edged slots (upcharge)

Maintenance:

Clean with vacuum, soft brush. May be cleaned with a damp soapy cloth, clean away residual soap and dry after cleaning.

NZ Building Act

This product is not subject to a warning or ban under Section 26.

NZ Building Code Compliance:

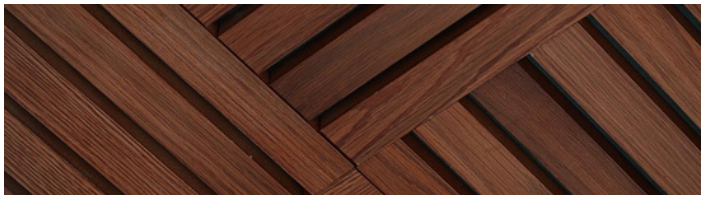
- B2 Durability – Clause B2.3.1 (c) (i): Asona Sonawood with only normal maintenance will have a minimum durability of at least 5 years when installed in accordance with; manufacturer's installation requirements and AS/NZS 2785:2020.
- C3 Fire – Clause C/AS2 4.12.1: Asona Sonawood has a Fire Material

Group Number :

3—perforated plywood, MDF with LPL or natural wood veneer
2-S—perforated FR MDF with laminates
1-S—non perforated solid FR MDF with natural wood veneer, LPL or paint, FR Plywood perforated or non-perforated.
NZBC Building Product Specification Parts 8.5.4 or 8.5.5, tested in accordance with ISO 9705 or ISO 5660.

Warranty:

15 year limited warranty against manufacturing defects.



Weight: (subject to board type density and slat open area)
4.2—9 kg/m² Contact Asona.

Installation:

Shall not commence until the building is water tight and dry. Panels shall be allowed to acclimatise in the area in which they are being installed no less than 2 days. Sonawood Slat wall panels shall be installed with a full perimeter support. Frame using timber battens/nogs, Rondo steel battens or Rondo Xpress Cross tees at 400mm centres to align with the Slat panel bridge fixing locations. Fix with countersunk screws through the fixing bridges between slats at 192mm centers for 32/64mm slot spacing and 256mm centres for 128mm slot spacing. For 3.5mm slot panels, face fix or use panel pin or staples through slot. Use temporary spacers the same size as the slot width between long edges of panels. Allow 3mm minimum between panel ends to accommodate movement.

Specification:

(Ceiling)(Wall) system shall be Sonawood Slat wood acoustical panel manufactured by Asona Limited. Tel: 09 525 6575, info@asona.co.nz.
Substrate: (Black FR MDF) (FR MDF) (standard MDF) (Plywood) (FR Plywood); Fire Group (_);
Finish Type: LPL (_), Natural Wood Veneer (_), raw
Finish: clear (_), stain (_), paint (_)
Panel Size: (_) x (_)mm x (_)mm thick,
Slot width: (3.5)(6)(8)(10)(12)mm, Slot centres: (32)(64)(128)mm
Slot type: (standard slot) (micro bevel slot)
Installation method: (_),
Contractor shall register the ceiling with Asona on practical completion. (Asona Masterspec 5172AA specification available).

NEW ZEALAND MADE

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