

sonawood panel™

PERFORATED WOOD PANELS FOR CEILINGS AND WALLS



TECHNICAL DATA SHEET BPIR - CLASS 1



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Perforated Wood Panels for Ceilings and Walls

Technical Data Sheet - BPIR Class 1

Sonawood™ is a made in NZ perforated wood panel with acoustic tissue backing designed to control unwanted noise in interior spaces. Panels may be customised according to substrate, decorative finish, acoustic perforations and sized to meet individual project requirements.

Application

Sonawood™ 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. Framing is from galvanised steel or timber.

Features & Benefits

- An attractive high performance acoustic ceiling or wall panel that can be customised to size and perforation.
- Available in a range of standard hole and slot perforation patterns to meet acoustic performance criteria.
- Range of substrates—FR MDF, FR Plywood, or standard MDF or Plywood, all acoustic tissue backed as standard.
- Veneer finish and plywood options provide the warmth of natural wood and are typically clear coated or stained.
- Pre-finished low pressure laminate finishes provide excellent colour and pattern consistency at lower cost.
- Panels available raw for on site coating or factory finished with UV, powder coat or premium 2 pack coatings.
- Fire Group 3, 2-S, 1-S performance subject to substrate and perforated open area selected.
- Tuneable acoustic performance, NRC 0.1 up to 0.80.
- Also available as a lay-in ceiling tile to fit Rondo DX grid.
- Range of fixing options, face fix, concealed fix, split rail.
- Asona in-house design service for shop drawings prior to manufacture. Ideal to integrate M/E services, penetrations (eg power outlets), borders etc.



Hobsonville Point secondary school



Orangutang enclosure—Auckland Zoo

ISO 9001:2015 Registered Firm No. NZ1014

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All dimensions are nominal. We reserve the right to change specifications without notice.
Ref. Sonawood-24.10

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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 |
| Finish Type | Natural wood veneer / Low pressure laminate / Paint / Stain / Clear coat |
| Wood Veneer Cut * | Crown / Quarter / Rotary / Recut |
| Wood Veneer Layup * | Book / Slip / Planked / Planked Rustic |
| Panel Size (nominal) | 1200 x 2400mm / _____ x _____ mm |
| Perforation Code # | |
| Installation Method | |

* Contact Asona for detailed information on Natural Wood Veneer cut and layup options)

NZBC C/AS2 Risk Groups and EFR Group Requirements

| Fire protection | Maximum permitted Group Number | | | | |
|-----------------|---|---|---|--|---|
| | Exitways and Importance Level 4 buildings: walls and ceilings | Sleeping spaces where care or detention is provided: walls and ceilings | Other sleeping spaces (excluding within household units) and crowd spaces: ceiling surfaces | Other sleeping spaces (excluding within household units) and crowd spaces: wall surfaces | All other occupied spaces: walls and ceilings |
| Unsprinklered | 1-S | 1-S | 2-S | 2-S | 3 |
| Sprinklered | 2 | 2 | 2 | 3 | 3 |
| Risk Group | SM SI CA WB | SI | SM CA | CA | WB |

Clause

4.17 Interior surface finishes, floor coverings and suspended flexible fabrics

Surface finish requirements for walls and ceilings

4.17.1 Surface finish requirements shall be as specified in Table 4.3 for walls and ceilings.

Exceptions to surface finish requirements

4.17.6 Surface finish requirements do not apply to:

- Small areas of non-conforming product within a firecell with a total aggregate surface not more than 5.0 m².

Educational buildings

4.17.7 Unsprinklered firecells containing classrooms, passageways and corridors of educational buildings need not comply with Table 4.3 provided all the following conditions are satisfied:

- The occupant load is less than 250, and
- The firecells are at ground level and are served by at least two exitways or final exits, and
- The material Group Number is no more than 2-S for surfaces 1.2m or more above floor level, and
- 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

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



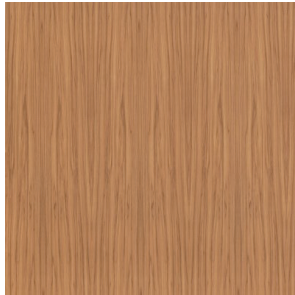
French Oak



Sovereign Oak



Rimu



Tahoe Walnut



Black Forest Oak



Standard Substrate Size

Panels are machined from substrates sized to allow for side trimming and for expansion and contraction on site. For example 2440 x 1220mm substrates are machined to 2397 x 1197mm for a nominal 2400 x 1200mm panel with allowance for 3mm gap between panels.

Nominal sizes:

2400 x 1200mm, 2700 x 1200mm, others to order

Thickness:

12mm*, others to order, consult Asona

(*13mm for natural wood veneers)

* Colour representations are as close as printing permits. 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.)

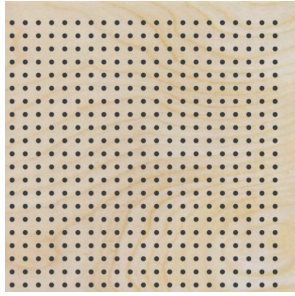
Painted and stained finishes—wide range available, contact Asona. (Paint finish suitable for MDF only; Stain finish suitable for Veneer and Plywood only)

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.

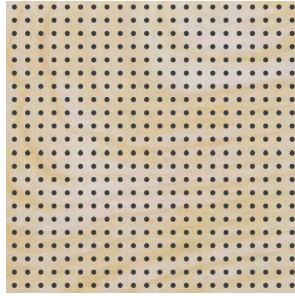
Perforation Patterns

Hole-Square

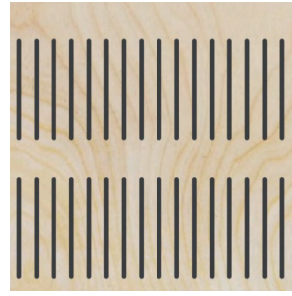
16 or 32mm centres



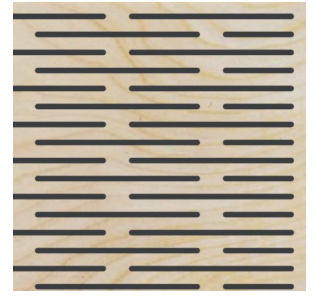
NB—No Border option for W1L1



Slot-Width

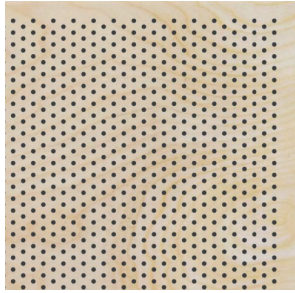


Slot-Staggered



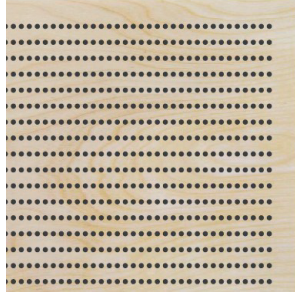
Hole-Diagonal

16 or 32mm centres

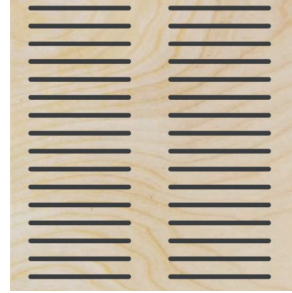


Hole-Linear

16x32mm centres



Slot-Length



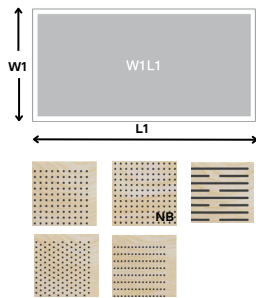
Slot-Herringbone



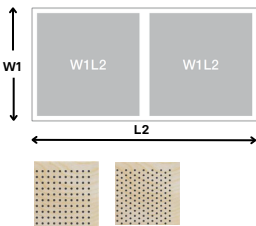
Perforation Clusters (Square pattern holes, Diagonal pattern holes, Linear pattern holes or Slot perforations)

Refer to <https://asona.co.nz/technical-library> for technical drawings.

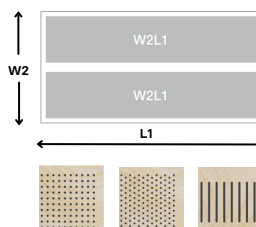
Open area % is measured over a full panel size including borders and non-perforated areas.



| Hole Ø /spacing ctrs | 6 @ 16mm | 8 @ 16mm | 8 @ 32mm | 10 @ 16mm | 12 @ 32mm | 16 @ 32mm | 50 @ 100mm |
|-----------------------|--------------------|--------------------|-----------------|---------------------|---------------------|------------------|-------------------|
| Open Area SQ % | 9.8% | 17.4% | 4.4% | 27.2% | 9.9% | 17.7% | 17.3% |
| Perforation Code # | H6.16.S.50 W1L1 | H8.16.S.50 W1L1 | H6.16.S.50 W1L1 | H6.16.S.50 W1L1 | H6.16.S.50 W1L1 | H6.16.S.50 W1L1 | H50.100.S.75 W1L1 |
| Open Area SQ % NB | 11.0% | 19.6% | 11.0% | - | 11.0% | 19.6% | - |
| Perforation Code # NB | H6.16.S.8 W1L1 | H8.16.S.8 W1L1 | H6.16.S.8 W1L1 | - | H6.16.S.8 W1L1 | H6.16.S.8 W1L1 | - |
| Open Area DIAG % | 9.8% | 17.4% | 9.8% | 27.2% | 9.9% | 17.7% | 19.4% |
| Perforation Code # | H6.16.D.50 W1L1 | H8.16.D.50 W1L1 | H6.16.D.50 W1L1 | H10.16.D.50 W1L1 | H12.32.D.50 W1L1 | H16.32.D.50 W1L1 | H50.100.D.75 W1L1 |
| Open Area LINEAR % | 5% | 8.8% | - | 13.8% | 19.7% | - | - |
| Perforation Code # | H6.16/32.S.50 W1L1 | H8.16/32.S.50 W1L1 | - | H10.16/32.S.50 W1L1 | H12.16/32.S.50 W1L1 | - | - |
| Slot Width | | 8mm | | 10mm | 12mm | | |
| Open Area SQ % | - | 20.7% | - | 25.9% | 31.0% | - | - |
| Perforation Code # | - | SS8.300.25 W1L1 | - | SS10.300.25 W1L1 | SS12.300.25 W1L1 | - | - |



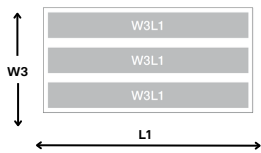
| Hole Ø /spacing ctrs | 6 @ 16mm | 8 @ 16mm | 8 @ 32mm | 10 @ 16mm | 12 @ 32mm | 16 @ 32mm | 50 @ 100mm |
|----------------------|-----------------|-----------------|-----------------|------------------|------------------|------------------|-------------------|
| Open Area SQ % | 9.4% | 16.7% | 4.3% | 26.1% | 9.7% | 17.2% | 16.6% |
| Perforation Code # | H6.16.S.50 W1L2 | H8.16.S.50 W1L2 | H8.32.S.50 W1L2 | H10.16.S.50 W1L2 | H12.32.S.50 W1L2 | H16.32.S.50 W1L2 | H50.100.S.75 W1L2 |
| Open Area DIAG % | 9.5% | 16.8% | 4.2% | 26.3% | 9.5% | 16.9% | 18.8% |
| Perforation Code # | H6.16.D.50 W1L2 | H8.16.D.50 W1L2 | H8.32.D.50 W1L2 | H10.16.D.50 W1L2 | H12.32.D.50 W1L2 | H16.32.D.50 W1L2 | H50.100.D.75 W1L2 |



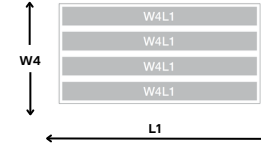
| Hole Ø /spacing ctrs | 6 @ 16mm | 8 @ 16mm | 8 @ 32mm | 10 @ 16mm | 12 @ 32mm | 16 @ 32mm | 50 @ 100mm |
|----------------------|-----------------|-----------------|-----------------|------------------|------------------|------------------|-------------------|
| Open Area SQ % | 9.1% | 16.2% | 4.0% | 25% | 9.1% | 16.2% | 15.7% |
| Perforation Code # | H6.16.S.50 W2L1 | H8.16.S.50 W2L1 | H8.32.S.50 W2L1 | H10.16.S.50 W2L1 | H12.32.S.50 W2L1 | H16.32.S.50 W2L1 | H50.100.S.75 W2L1 |
| Open Area DIAG % | 8.9% | 15.8% | 4.0% | 24.6% | 8.9% | 15.9% | 16.7% |
| Perforation Code # | H6.16.D.50 W2L1 | H8.16.D.50 W2L1 | H8.32.D.50 W2L1 | H10.16.D.50 W2L1 | H12.32.D.50 W2L1 | H6.32.D.50 W2L1 | H50.100.D.75 W2L1 |
| Slot Width | | 8mm | | 10mm | 12mm | | |
| Open Area SQ % | - | 17.3% | - | 21.7% | 26.0% | - | - |
| Perforation Code # | - | SW8.520.40 W2L1 | - | SW10.520.40 W2L1 | SW12.520.40 W2L1 | - | - |

Perforation Clusters (Square pattern holes, Diagonal pattern holes, Linear pattern holes or Slot perforations).

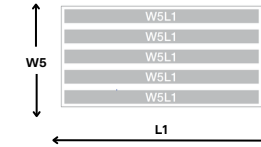
Open areas exclude borders and non-perforated areas.



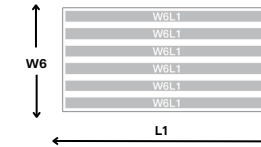
| Hole Ø /spacing ctrs | 6 @ 16mm | 8 @ 16mm | 8 @ 32mm | 10 @ 16mm | 12 @ 32mm | 16 @ 32mm | 50 @ 100mm |
|----------------------|-----------------|-----------------|-----------------|------------------|------------------|------------------|-------------------|
| Open Area SQ % | 8.1% | 14.4% | 3.8% | 22.5% | 8.5% | 15.1% | 14.2% |
| Perforation Code # | H6.16.S.50 W3L1 | H8.16.S.50 W3L1 | H8.32.S.50 W3L1 | H10.16.S.50 W3L1 | H12.32.S.50 W3L1 | H16.32.S.50 W3L1 | H50.100.S.75 W3L1 |
| Open Area DIAG % | 7.9% | 14.1% | 3.7% | 22.0% | 8.2% | 14.6% | 14.0% |
| Perforation Code # | H6.16.D.50 W3L1 | H8.16.D.50 W3L1 | H8.32.D.50 W3L1 | H10.16.D.50 W3L1 | H12.32.D.50 W3L1 | H16.32.D.50 W3L1 | H50.100.D.75 W3L1 |
| Slot Width | 8mm | | 10mm | | 12mm | | |
| Open Area SQ % | - | 16.0% | - | 19.9% | 23.9% | - | - |
| Perforation Code # | - | SW8.320.40 W3L1 | - | SW10320.40 W1L1 | SW12.320.40 W3L1 | - | - |



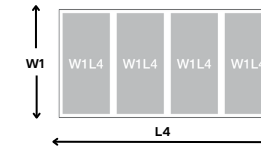
| Slot Width | 8mm | 10mm | 12mm |
|--------------------|-----------------|------------------|------------------|
| Open Area % | 14.0% | 18.2% | 21.8% |
| Perforation Code # | SW8.220.40 W4L1 | SW10.220.40 W4L1 | SW12.220.40 W4L1 |



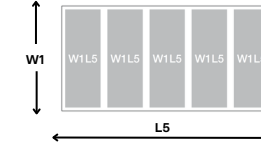
| Slot Width | 8mm | 10mm | 12mm |
|--------------------|-----------------|------------------|------------------|
| Open Area % | 13.2% | 16.5% | 19.8% |
| Perforation Code # | SW8.160.40 W5L1 | SW10.160.40 W5L1 | SW12.160.40 W5L1 |



| Slot Width | 8mm | 10mm | 12mm |
|----------------------|-----------------|------------------|------------------|
| Open Area % Vertical | 11.9% | 14.8% | 17.7% |
| Perforation Code # | SW8.120.40 W6L1 | SW10.120.40 W6L1 | SW12.120.40 W6L1 |
| Open Area % Herring | 16.7% | 21.0% | 25.4% |
| Perforation Code # | SAB.180.50 W6L1 | SA10.182.48 W6L1 | SA12.184.46 W6L1 |



| Slot Width | 8mm | 10mm | 12mm |
|--------------------|-----------------|------------------|------------------|
| Open Area % | 17.3% | 21.7% | 32.0% |
| Perforation Code # | SW8.520.40 W1L4 | SW10.520.40 W1L4 | SW12.520.40 W1L4 |

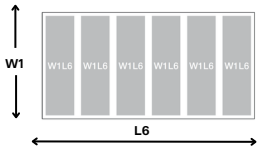


| Slot Width | 8mm | 10mm | 12mm |
|--------------------|-----------------|------------------|------------------|
| Open Area % | 16.7% | 20.8% | 24.9% |
| Perforation Code # | SW8.400.40 W1L5 | SW10.400.40 W1L5 | SW12.400.40 W1L5 |

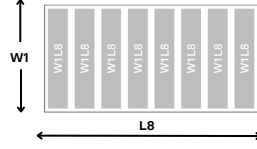


Perforation Clusters (Square pattern holes, Diagonal pattern holes, Linear pattern holes or Slot perforations).

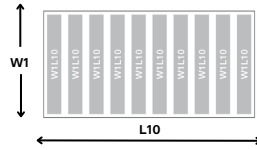
Open areas exclude borders and non-perforated areas.



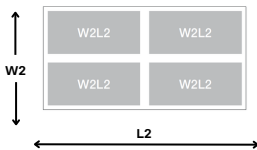
| Slot Width | 8mm | 10mm | 12mm |
|--------------------|-----------------|------------------|------------------|
| Open Area % | 16.0% | 20.8% | 23.9% |
| Perforation Code # | SW8.320.40 W1L6 | SW10.320.40 W1L6 | SW12.320.40 W1L6 |



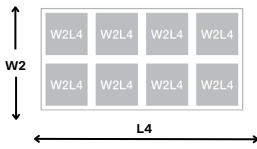
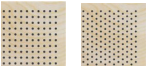
| Slot Width | 8mm | 10mm | 12mm |
|--------------------|-----------------|------------------|------------------|
| Open Area % | 14.6% | 18.2% | 21.8% |
| Perforation Code # | SW8.220.40 W1L8 | SW10.220.40 W1L8 | SW12.220.40 W1L8 |



| Slot Width | 8mm | 10mm | 12mm |
|--------------------|------------------|-------------------|-------------------|
| Open Area % | 13.2% | 16.5% | 19.8% |
| Perforation Code # | SW8.160.40 W1L10 | SW10.160.40 W1L10 | SW12.160.40 W1L10 |



| Hole Ø /spacing ctrs | 6 @ 16mm | 8 @ 16mm | 8 @ 32mm | 10 @ 16mm | 12 @ 32mm | 16 @ 32mm | 50 @ 100mm |
|----------------------|-----------------|-----------------|-----------------|------------------|------------------|-----------------|-------------------|
| Open Area SQ % | 8.7% | 15.5% | 3.9% | 24.2% | 8.8% | 15.7% | 15.1% |
| Perforation Code # | H6.16.S.50 W2L2 | H8.16.S.50 W2L2 | H8.32.S.50 W2L2 | H10.16.S.50 W2L2 | H12.32.S.50 W2L2 | H6.32.S.50 W2L2 | H50.100.S.75 W2L2 |
| Open Area DIAG % | 8.6% | 15.2% | 3.8% | 23.8% | 8.6% | 15.2% | 16.2% |
| Perforation Code # | H6.16.D.50 W2L2 | H8.16.D.50 W2L2 | H8.32.D.50 W2L2 | H10.16.D.50 W2L2 | H12.32.D.50 W2L2 | H6.32.D.50 W2L2 | H50.100.D.75 W2L2 |



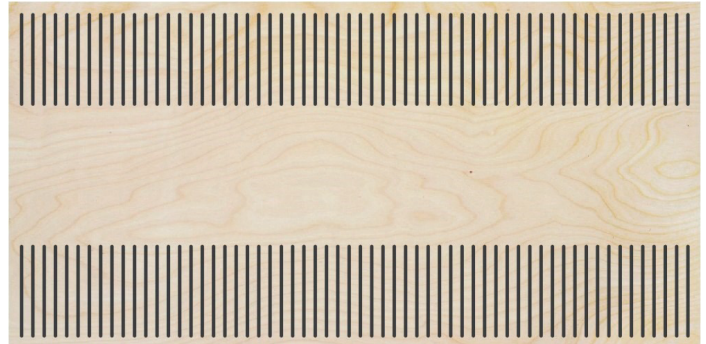
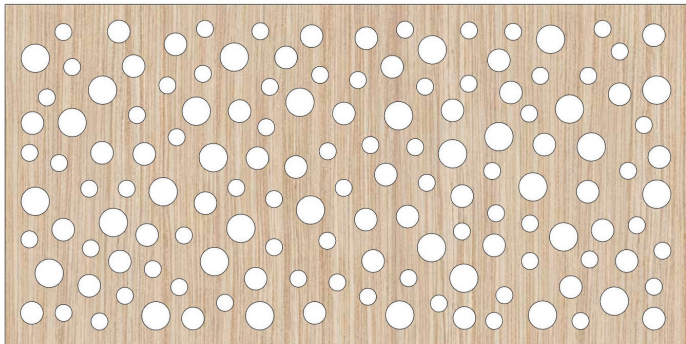
| Hole Ø /spacing ctrs | 6 @ 16mm | 8 @ 16mm | 8 @ 32mm | 10 @ 16mm | 12 @ 32mm | 16 @ 32mm | 50 @ 100mm |
|----------------------|-----------------|-----------------|-----------------|------------------|------------------|------------------|-------------------|
| Open Area SQ % | 8.1% | 14.4% | 3.6% | 22.4% | 8.1% | 14.4% | 13.7% |
| Perforation Code # | H6.16.S.50 W2L4 | H8.16.S.50 W2L4 | H8.32.S.50 W2L4 | H10.16.S.50 W2L4 | H12.32.S.50 W2L4 | H16.32.S.50 W2L4 | H50.100.S.75 W2L4 |
| Open Area DIAG % | 7.9% | 14.1% | 3.5% | 22.1% | 7.8% | 13.9% | 14.8% |
| Perforation Code # | H6.16.D.50 W2L4 | H8.16.D.50 W2L4 | H8.32.D.50 W2L4 | H10.16.D.50 W2L4 | H12.32.D.50 W2L4 | H16.32.D.50 W2L4 | H50.100.D.75 W2L4 |



| Slot Width | 8mm | | 10mm | 12mm | | |
|--------------------|-----|-----------------|------|------------------|------------------|---|
| Open Area % | - | 15.6% | - | 19.4% | 23.3% | - |
| Perforation Code # | - | SW8.500.50 W2L4 | - | SW10.500.50 W2L4 | SW12.500.50 W2L4 | - |

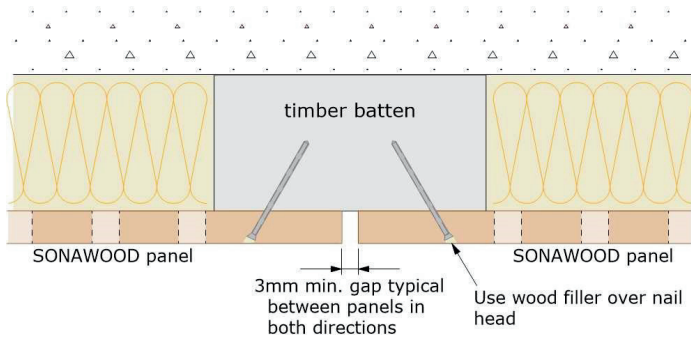
Custom Perforations

Example: random perforation with 3 hole sizes, or blank areas for services integration.

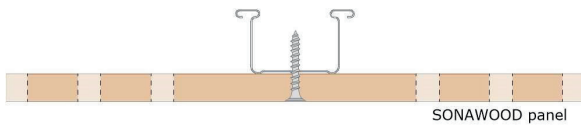


Installation Options

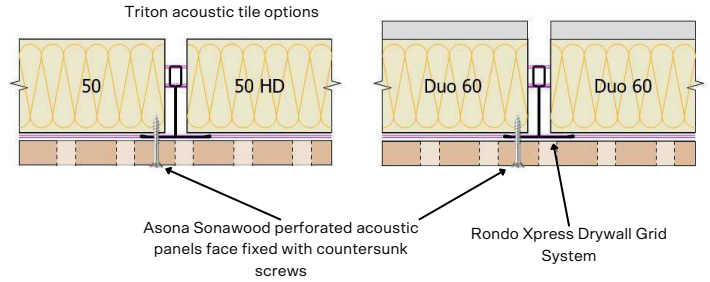
Face fix with 40mm panel pins



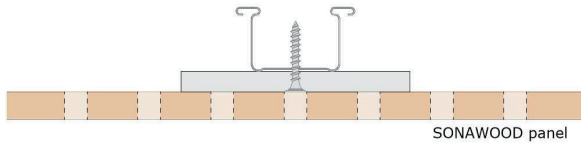
Face fix with countersunk screws to Rondo KEY-LOCK® furring channel/batten



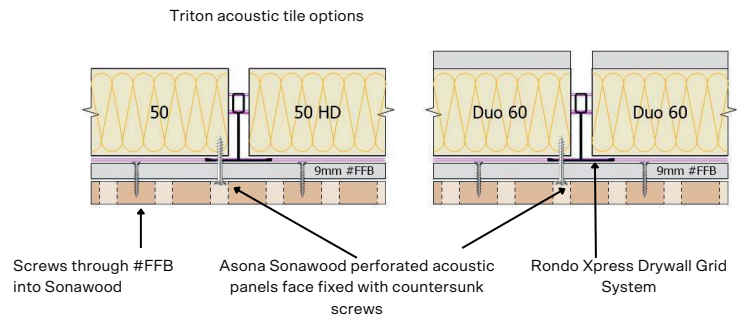
Face fix with countersunk screws to Rondo Xpress®



Secret fix / hidden screw to #FFB mounting strip to Rondo KEY-LOCK® furring channel/batten

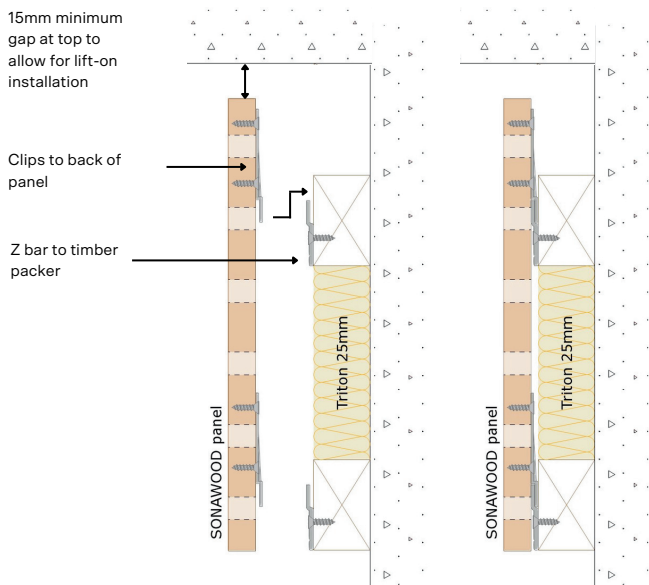


Secret fix / hidden screw to #FFB mounting strip to Rondo Xpress®

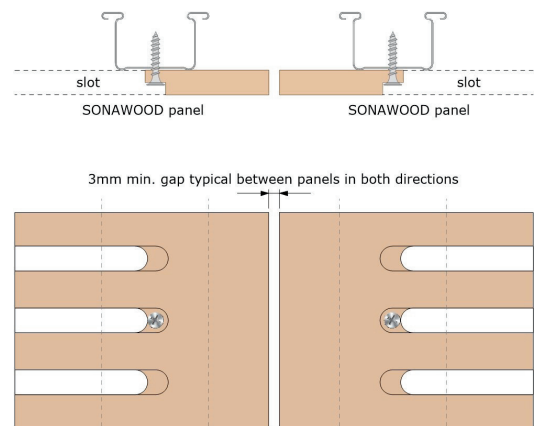


Demountable Mounting (Walls Only)

Secret fix with Z bar split rail and clip—wall mounting only



Secret fix with Z bar split rail and clip—wall mounting only



Contact Asona for full Installation Manuals for the above mounting systems.

ISO 9001:2015 Registered Firm No. NZ1014

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All dimensions are nominal. We reserve the right to change specifications without notice.
Ref. Sonawood-24.10

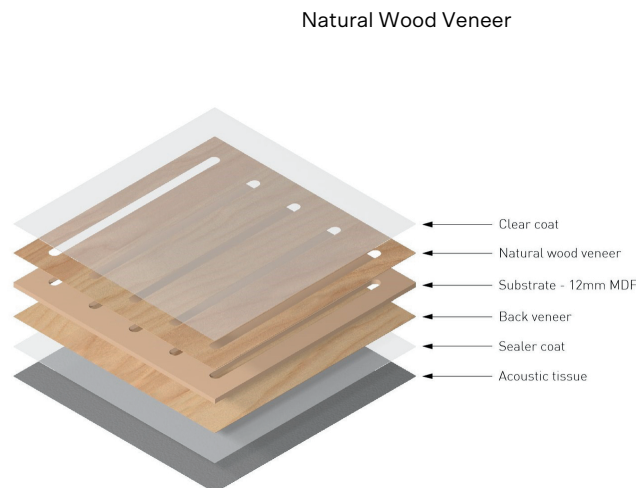
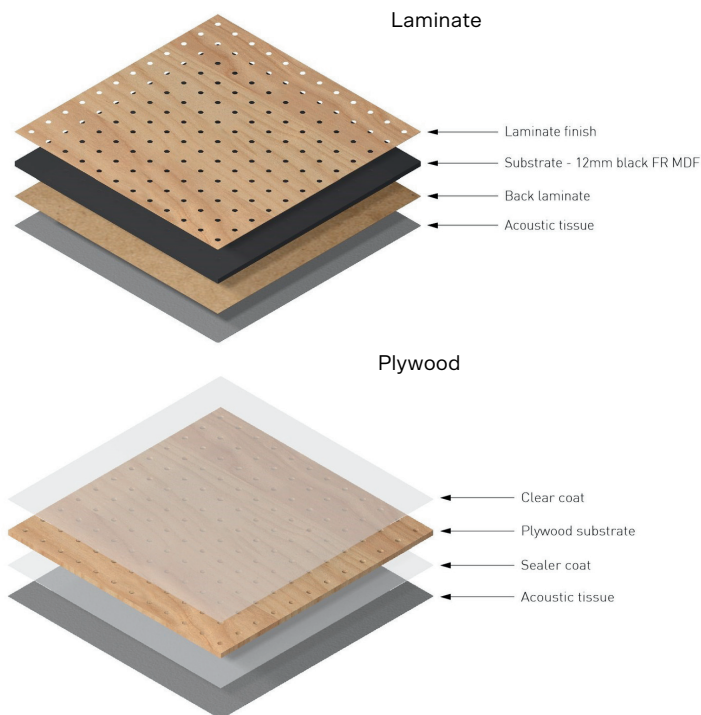
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asona

Sonawood Composition Examples



Technical Specifications

Finishes: All panel types

Pre-finished in a range of decorative surface finishes from paint, clear coat lacquer, stain, or prefinished laminates. 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.
- Not for use with negative air return plenums.
- 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.

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 (b) (i): Asona Sonawood with only normal maintenance will have a minimum durability of at least 15 years when installed in accordance with; manufacturer's installation requirements and AS/NZS 2785:2020.
- C3 Fire – Clause C/AS2 3.4(a): 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 verification method C/VM2 Appendix A, tested in accordance with ISO 5660 or ISO 9705.

Warranty:

15 year limited warranty against manufacturing defects.

Weight: (subject to board type density and perforation open area)

4.2—10 kg/m² Contact Asona.

Practical Sound Absorption Coefficients:

ISO 354 E-200, Test reports T2312-3 to 8

* with Triton 50 acoustic tile backer

| ITEM | Open Area* | NRC | 125 Hz | 250 Hz | 500 Hz | 1K Hz | 2K Hz | 4K Hz |
|------------------|------------|------|--------|--------|--------|-------|-------|-------|
| H8.16 NB | 19.6 | 0.70 | 0.50 | 0.70 | 0.80 | 0.70 | 0.65 | 0.70 |
| H8.16 NB* | 19.6 | 0.75 | 0.60 | 0.75 | 0.75 | 0.80 | 0.80 | 0.80 |
| SW10.520 | 21.7 | 0.65 | 0.55 | 0.70 | 0.80 | 0.60 | 0.60 | 0.55 |
| SW10.520* | 21.7 | 0.70 | 0.65 | 0.70 | 0.75 | 0.70 | 0.65 | 0.65 |
| SW12.520 | 26.0 | 0.70 | 0.45 | 0.70 | 0.80 | 0.65 | 0.60 | 0.55 |
| SW12.520* | 26.0 | 0.80 | 0.70 | 0.80 | 0.80 | 0.80 | 0.70 | 0.70 |

Installation:

Shall not commence until the building is water tight and dry. Sonawood wall panels shall be installed with a full perimeter support and plywood ceiling panels must have the face grain running at right angles to framing members. If panels are to be face fixed, timber framing members are recommended to enable more discrete fixings to be used. To minimise the risk of buckling, it is recommended that the panels be allowed to acclimatise in the area in which they are being installed no less than 2 days. Allowance of 3mm minimum shall be made between panels to accommodate swelling and building movement. Refer full Installation Manual.

Specification:

Acoustical treatment shall be Sonawood perforated wood acoustical panel manufactured by Asona Limited. Tel: 09 525 6575, info@asona.co.nz. Substrates: (Black FR MDF) (FR MDF) (standard MDF) (Plywood) (FR Plywood); Fire Group ();

Finish Type: Natural Wood Veneer (), LPL () (Natural)

Finish: paint (), stain (), clear ()

Panel Size: () x ()mm x ()mm thick,

Perforation: Type (), Perforation Cluster: (), Code#: ()

Installation method: ()

Contractor shall register the ceiling with Asona on practical completion. (Asona Masterspec 5172AA specification available).

