

0522P RONDO IN PARTITIONS - FRAMED AND LINED

Branded worksection

This branded worksection *Template* has been developed by NATSPEC in conjunction with **Rondo Building Services Pty Ltd** (the Product Partner) and may be used whilst the Product Partner is licensed to distribute it. The copyright remains with NATSPEC. As with all NATSPEC worksections, it is the responsibility of the user to make sure it is completed appropriately for the project. The user should also review its applicability for local conditions and regulations. Check www.natspec.com.au for the latest updated version.

Worksection abstract

This worksection *Template* is applicable to internal framed and lined partitions with lightweight steel using RONDO wall framing systems and plasterboard or fibre cement lining.

How to use this worksection

Customise this worksection *Template* for each project. See A guide to NATSPEC worksections (www.natspec.com.au) for information on *Template* structure, word styles, and completing a worksection.

Related material located elsewhere in NATSPEC

If a listed worksection is not part of your subscription package and you wish to purchase it, contact NATSPEC.

Related material may be found in other worksections. See for example:

- *0342 Light steel framing.*
- *0382 Light timber framing* for framed internal loadbearing walls or framed walls integral to the building.
- *0451 Windows and glazed doors.*
- *0453 Doors and access panels.*
- *0455 Door hardware.*
- *0461 Glazing.*
- *0467 Glass components* for glass associated with joinery items.
- *0472 Acoustic insulation* for acoustic treatment.
- *0511 Lining* for additional sheet lining products.
- *0525 Cubicle systems* or *0526 Terrazzo precast* as appropriate for toilet or shower partitions.
- *0527 Room dividers.*
- *0531 Suspended ceilings – combined.*
- *0551 Joinery* for timber architraves, skirtings and trim.
- *0572 Miscellaneous furniture.*
- *0641 Applied wall finishes.*

Each of the following worksections contain a single partition system and may be used where appropriate in addition to this worksection:

- *0521 Partitions – demountable.*
- *0523 Partitions – brick and block.*
- *0524 Partitions – glazed.*

Related branded worksections include:

- *0453p RONDO in doors and access panels.*
- *0531p RONDO in suspended ceilings – combined.*

Material not provided by RONDO

This branded worksection includes generic material which may not be provided by the Product Partner including:

- Linings.
- Plenum baffles.

Some projects may include items not covered by NATSPEC. For these you may need to create new text, or modify this text or a suitable worksection.

Documenting partitions and related work

You may document this and related work as follows:

- Indicate the location and type of partitions on drawings to your office documentation policy.
- Doors that are not part of a proprietary system in *0451 Windows and glazed doors* or *0453 Doors and access panels*.

- Plenum baffles and flanking sound insulation in *0472 Acoustic insulation* or document here.
- Locate fire-resistance rated walls and nominate FRL(s). Document details related to fire-resistance and lateral stability.
- Document requirements for partitions to withstand imposed actions, including wind and seismic actions.
- If documenting the RONDO MAXIFRAME® external wall framing system, co-ordinate with the *043 Cladding* or *033 Masonry* workgroups and import information from *0342 Light steel framing*.

The *Normal* style text of this worksection may refer to items as being documented elsewhere in the contract documentation. Make sure they are documented.

For example:

- Wall height.
- Vertical uplift movement for metal deck roofs.

Search acumen.architecture.com.au, the Australian Institute of Architects' practice advisory subscription service, for notes on the following:

- Guarantees and warranties.
- Partition system acoustics.

Specifying ESD

The following may be specified by including additional text:

- Reduced/zero formaldehyde emissions: For plywood, blockboard, particleboard and dry process fibreboard (including MDF). Refer to AS 1859.1 (2017) and AS/NZS 1859.2 (2017) for further information on formaldehyde emissions.
- Recycled material content: For steel framing, plasterboard, fibre cement, particleboard and MDF. For example, plasterboard may consist of recycled core content and liner paper manufactured from recycled newspaper and cardboard.
- Recycling of plasterboard waste into new plasterboard or as soil conditioner.
- Fibre cement for resistance to termites and fungal decay.
- Alternative panel materials such as strawboard made from waste straw with zero formaldehyde, paperboard made from recycled paper, and bamboo panels.
- Systems that are 100% recyclable at the end of service life.

Refer to NATSPEC TECHreport TR 01 on specifying ESD.

1 GENERAL

RONDO is a market leading manufacturer and supplier of wall and ceiling systems, and complementary accessories. RONDO is dedicated to providing the systems needed to realise visions effectively and in the most economical way possible, including systems where specific wind pressure, seismic design or acoustic design is to be accommodated. RONDO's commitment to providing market leading solutions, customer service and high quality products has led it to being behind the best buildings throughout the world.

1.1 RESPONSIBILITIES

General

Requirement: Provide framed and lined partitions comprising RONDO wall framing system and linings, as documented.

Documented is defined in *0171 General requirements* as meaning contained in the contract documents.

Performance

Strength and stability: To remain stable, and without permanent deformation under the following imposed loads:

- Wind loads to AS/NZS 1170.2 (2021), but not less than:
 - . Ultimate load = 0.375 kPa.
 - . Serviceability load = 0.25 kPa.
 - . Seismic Loads: To AS 1170.4 (2007).
- Impact loads: 0.70 kN applied at 1500 mm above floor level or mid height for partitions less than 3000 mm high.

Impact loads can be caused by trolleys, wheelchairs or people falling against the partition.

Deflection limit: Partitions are to support all imposed loads, including designated eccentric loads and not to deflect in excess of the following, where H is the height of the partition:

- The lesser of H/240 or 30 mm for partitions lined with flexible material.
- The lesser of H/360 or 20 mm for partitions lined with brittle materials.
- H/500 for eccentric loads.
- The lesser of H/200 or 12 mm for impact loads.

Internal walls and ceilings need to withstand internal wind pressures. Refer to AS/NZS 1170.2 (2021) clause 5.3.3 for internal pressure requirements.

1.2 COMPANY CONTACTS

RONDO technical contacts

Website: www.rondo.com.au/contact-us/

1.3 CROSS REFERENCES

General

Requirement: Conform to the following:

- 0171 General requirements.

0171 General requirements contains umbrella requirements for all building and services worksections.

List the worksections cross referenced by this worksection. 0171 General requirements references the 018 Common requirements subgroup of worksections. It is not necessary to repeat them here. However, you may also wish to direct the contractor to other worksections where there may be work that is closely associated with this work.

NATSPEC uses generic worksection titles, whether or not there are branded equivalents. If you use a branded worksection, change the cross reference here.

1.4 MANUFACTURER'S DOCUMENTS

Technical manuals

Resources: www.rondo.com.au/resources

Products: www.rondo.com.au/products/walls/

Product manual: www.rondo.com.au/resources/installation/product-manuals/

1.5 TOLERANCES

Framed and lined partitions

Finished framing: To AS/NZS 2589 (2017) clause 4.2.2.

Specify more stringent tolerances for specific architectural requirements.

1.6 SUBMISSIONS

Certification

Installed partitions: Submit a certificate from an independent testing authority as evidence that the partition system installed conforms to the documented weighted sound reduction index (R_w).

Delete if not required.

For weighted sound reduction index (R_w) rating, see AS/NZS ISO 717.1 (2004) and NATSPEC TECHnote DES 032 for information on airborne sound insulation.

Fire performance

Fire hazard properties: Submit evidence of conformity to PRODUCTS, FIRE PERFORMANCE, Fire hazard properties.

Fire-resistance level: Submit evidence of conformity to PRODUCTS, FIRE PERFORMANCE, Fire-resistance of building elements.

Products and materials

Manufacturer's data: Submit manufacturer's standard product literature for each system type.

Type tests: Submit results as follows:

- Impact resistance.
- Pressure resistance.
- Surface indentation resistance.
- Weighted sound reduction index (R_w): To AS/NZS ISO 717.1 (2004).

Weighted sound reduction index (laboratory test) may also require addition of a spectrum adaption term to conform to NCC requirements.

Type tests are carried out off-site. However, submission of evidence of a successful type test may be called up here for requirements specified in SELECTIONS or PRODUCTS, when there are no SELECTIONS.

Evidence of delivery: Submit delivery docket as evidence of delivery of [complete/delete]

If evidence of delivery to site is required for particular products, consider including this *Optional* style text by changing to *Normal* style.

Warranties

Requirement: Submit RONDO warranty.

1.7 INSPECTION

Notice

Inspection: Give notice so that inspection may be made of the following:

- Set-out before installation.
- Partition framing before installation of linings and finishes.
- Framed and lined partitions ready to receive framed and glazed components.
- Completion of installation.

Amend to suit the project, adding critical stage inspections required.

Hold points, if required, should be inserted here.

2 PRODUCTS

2.1 GENERAL

Product substitution

Other products: Conform to **SUBSTITUTIONS** in *0171 General requirements*.

SUBSTITUTIONS in *0171 General requirements* sets out the submissions required if the contractor proposes alternative products. Refer also to NATSPEC TECHnote GEN 006 for more information on proprietary specification.

Product identification

General: Marked to show the following:

- Manufacturer's identification.
- Product brand name.
- Product type.
- Quantity.
- Product reference code and batch number.
- Date of manufacture.

Edit the list to suit the project or delete if not required.

2.2 FIRE PERFORMANCE

Fire hazard properties

Group number: To AS 5637.1 (2015).

Non-sprinklered buildings: Wall and ceiling linings must either have an *average specific extinction area* less than 250 m²/kg or a *smoke growth rate index* not more than 100 as determined by AS 5637.1 (2015).

Refer to NATSPEC TECHnote DES 020 for information on fire hazard properties.

Fire-resistance of building elements

Fire-resistance level: Tested to AS 1530.4 (2014).

Refer to NATSPEC TECHnote DES 020 for information on fire-resistance levels.

2.3 TESTING

0171 General requirements defines different tests in **INTERPRETATION**, **Definitions** and calls for an inspection and testing plan in **TESTING - GENERALLY, Inspection and testing plan**.

General

Impact resistance, lightweight partitions: To withstand impact without permanent deformation, damage, failure of fastenings.

- Drop height (mm): [complete/delete]
- Test method: Use the apparatus and procedure of the sand-bag test of the NCC cited ASTM E695 (2003).

The NCC cites ASTM E695 (2003). The current edition is ASTM E695 (2022).

If lightweight construction is used in a wall system that is required to have a FRL, BCA (2022) C2D9 and BCA (2022) Spec 6 require the lightweight construction to be tested to ASTM E695 (2003).

Pressure resistance: To withstand a uniformly distributed load normal to the plane of the partition without permanent deformation or damage or excessive deflection.

- Load: [complete/delete]

Uniformly distributed load: e.g. 0.25 kPa to 0.5 kPa if in cyclonic area.

- Test method: To the NCC cited ASTM E72 (2015).

The NCC cites ASTM E72 (2015). The current edition is ASTM E72 (2022).

If lightweight construction is used in a wall system that is required to have a FRL, BCA (2022) C2D9 and BCA (2022) Spec 6 require the lightweight construction to be tested to ASTM E72 (2015).

2.4 RONDO FRAMING**Light steel framing**

General: RONDO framing system of cold-formed metallic-coated steel studs, channel track sections and noggings to the **RONDO light steel framing schedule**.

Sections and members: To AS/NZS 4600 (2018).

Base metal and coating to AS 1397 (2021): Z275.

Partition systems:

- RONDO Steel stud and track framing system.

Lightweight steel stud and track framing for internal plasterboard wall systems and specific external wall applications.

- RONDO MAXIFRAME® External wall framing system.

This external, non load bearing wall framing system offers a cost-effective solution for lightweight steel framing when compared to traditional external wall construction methods. If external walls are load bearing, contact RONDO.

- RONDO QUIET STUD® Acoustic wall system.

Its unique design means that it provides a more acoustic efficient wall system than a normal steel stud, and has a smaller footprint than alternative staggered stud installations.

- RONDO DUPLEX® Internal stud framing system.

This framing system is ideal for trimming openings in internal walls where boxed studs are normally required. It can also be used to replace standard studs in load bearing walls, where the system can provide additional load capacity.

- RONDO SHAFTWALL system.

The Rondo SHAFTWALL is a one-way erected wall system that is suitable for both fire-rated and sound-rated applications. The system is designed to encase lift shafts, stairwells and service ducting in low and high-rise construction areas.

Accessories

General: Accessories necessary to complete the installation including the following:

- Screw anchors for concrete.
- Suitable metal pins, bolts or screws for fixing to structural steelwork.
- Self-tapping and drilling screws for general metal framing connections.
- RONDO standard brackets for jamb studs and concentrated load positions.

2.5 LININGS**Plasterboard**

Standard: To AS/NZS 2588 (2018).

Fibre cement

Standard: To AS/NZS 2908.2 (2000).

Wall and ceiling linings: Type B category 2.

Minimum thickness: 4.5 mm.

Accessories

General: Accessories necessary to complete the installation including the following:

- Corner beads.
- Stop beads.
- Shadowlines.
- Control joints.
- Sheet metal and MDF partition end caps.

Adhesives

General: Adhesives of types appropriate to their purpose and substrates, applied to transmit the loads imposed without causing discolouration of finished surfaces.

Sealants

General: Sealant types appropriate for the partition's documented acoustic rating and fire-resistance level, and compatible with partition materials and building substrate.

2.6 PLENUM BAFFLES

General

Requirement: Plenum baffles that maintain the documented fire-resistance level and acoustic performance of the partitions.

Types

Bulk insulation: Layers of bulk insulation batts compressed between the top of the partition and the slab soffit.

Flexible sheet insulation: Mass loaded vinyl sheeting hung as a curtain from the slab soffit.

Plasterboard: Plasterboard sheets bonded together (if more than one layer).

Select materials and detail baffles to maintain the fire-resistance or weighted sound reduction index nominated for the partition system, or delete if not required.

3 EXECUTION

3.1 GENERAL

Preparation

Substrate: Prepare the substrate to receive the partitions.

Carpet: Fix bottom tracks over polyethylene film. Prevent carpet threads from pulling if drilling or installing fasteners.

Protection

General: Protect existing work from damage during the installation and rectify any damage. Provide temporary coverings if required.

Set-out

General: Set out the partition grid on the centreline of framing members, and to coincide with the ceiling grid and other major building grid, as applicable.

Delete if fully dimensioned.

3.2 INSTALLATION

Partition erection

General: Install partitions plumb, level, on their correct alignment, and firmly fixed.

Building movements:

- Provide clearances or deflection heads so that partitions are not damaged by structural building movements including long-term slab deflection.
- If fire-resistance levels or acoustic ratings are required, provide a resilient foam or mastic seal with properties equal to those required for the partition.

Suspended slabs: Provide deflection heads.

Structural floor control joints

General: Do not run or fix partitions framing across control joints. Install to RONDO's recommendations.

Acoustic rated partitions

General: Isolate the frames from floors, ceilings and vertical abutments with beads of non-hardening sealant compatible with the materials to be sealed.

Fire caulking mastic and wet area sealants are claimed to have appropriate acoustic sealing properties.

Trim

General: Provide trim such as beads, mouldings, stops and skirtings to make neat junctions between lining components, finishes and adjacent surfaces.

Describe where prompted or refer to detail. Locate to your office documentation policy.

Sealing fire-resisting and acoustic rated partitions

General: Apply sealant to the manufacturer's recommendations and as follows:

- Around services pipes and penetrations.
- Electrical outlets and recessed lights: Line back and sides of fixture with plasterboard and seal around fixture junction with sealant.
- Around perimeter of lining panels: Provide continuous runs of sealant.

3.3 RONDO LIGHT STEEL FRAMES**RONDO partition system**

Requirement: To the RONDO Professional Design Manual.

Tracks

General: Conform to the following:

- Fix bottom tracks to floor substrate.
- Fix top wall tracks to suspended ceiling grid or as documented.
- Fix deflection head tracks to the structural soffit above.

Fixing to masonry: Provide masonry anchors of screw fasteners or chemical grout type. Do not use explosive-driven fastenings.

Fixing to metal deck roofs: Provide for vertical uplift movement, as documented.

Fixing to suspended ceilings: Provide intermediate support and bracing at maximum 1500 mm centres and at all load concentrations, doorways and jamb studs.

Seismic movement: If required, do not butt wall tracks or deflection heads against each other. Provide 10 mm clearance between tracks, or as documented.

Track fixing: Fix top and bottom tracks at 600 mm maximum centres generally, and 100 mm from ends. Splice plates at ends to maintain continuity and alignment.

Stud framing

General: Conform to the following:

- Provide studs in single lengths without splices, or as documented.
- Rotate studs into tracks for friction fixing.
- Accurately position studs as required along the wall length.
- Select stud gauge and size for the required performance and documented wall height.

Staggered stud framing: Stagger studs to RONDO's recommendations in oversized top and bottom plates so that each face has stud fixings at 600 mm maximum centres.

Stud fixing: Screw fix corner studs and wall intersection studs to base tracks and abutting studs, as required.

Noggings: Fix noggings to RONDO's recommendations and for skirtings and wet area lining. Make sure that faces of noggings and studs are accurately aligned.

Detail wet area wall and floor systems, and installation requirements for sanitary fittings.

Lintels: Provide lintels as required, conforming to the following:

- Fix to jamb studs.
- Allow for vertical structural movement over openings.

- Where rigidly attached to the structure, allow for deflection in the glazing unit and vertical control joints either side of the opening.

Specify or detail a truss built-up from frame members for larger openings.

Curved partitions

RONDO flexible tracks: Set out the curve and lay tracks, installing temporary fixings for a regular and uniform curve.

Track fixing: Fix head and base tracks to the supporting structure at each stud location through the pre-punched fixing hole in the track web.

Stud spacing: Conform to the sheeting manufacturer's recommendations for curved partitions.

RONDO flexible tracks for curved walls are pre-punched to allow curvature of the tracks without the need for additional cutting or segmenting of the track sections.

Jambs

General: Conform to the following:

- Openings: Install RONDO DUPLEX® internal stud framing system at jambs and heads to openings.

Vary as required for integral door frame/lining systems.

- Structural soffits: Fix slotted deflection heads at the top of jamb studs and screw fix to RONDO's recommendations. If blocking is used, maintain minimum clearances.
- Additional track fixings: Fix track within 100 mm of jamb stud, or as documented.

Additional frame support

General: Provide frame support for fixing the following:

- Floor and wall mounted fixed joinery units, furniture and equipment.
- All wet area fittings and fixtures.
- All grabrails and handrails.

Timber nogging: Provide 240 x 40 mm timber nogging with proprietary stud fixing brackets for wall-hung sanitary fittings.

Stud stiffening: Provide stud stiffening to support wall-hung joinery units and equipment with:

- Full height close fitting timber inserts.
- Boxed steel lipped studs.

Select from alternatives or detail on drawings. Coordinate with 0551 Joinery.

Stud service holes

General: Use RONDO light and medium gauge studs with pre-punches flared service holes.

Available in 0.50, 0.55 and 0.75 BMT. Holes are at 600 mm centres for the first 4 holes and at 150 mm from the end of the studs.

Additional service holes:

- Punched or drilled on the centreline of the member.
- Fitted with proprietary plastic bushes or grommets.
- Splice additional stiffening to studs if site cut service holes exceed 1/3 the depth of the member.

Show sufficient details of the services on the drawings (e.g. diagrammatic service runs, cable, pipe or duct sizes, outlets, etc.). Consider access for repairs, etc. Show access panels on the drawings.

Metal separation

General: Isolate non-ferrous service pipes and accessories from the metal framing.

Earthing

Permanent earthing: If required, conform to AS/NZS 3000 (2018).

Temporary earthing: If permanent earthing is required, provide temporary earthing during erection until the permanent earthing is installed.

Cavity walls

General: If bridging is nominated, provide to the manufacturer's recommendations.

3.4 PLASTERBOARD

Installation

Gypsum plasterboard and fibre reinforced gypsum lining: To AS/NZS 2589 (2017).

The standard is generally adequate for most plasterboard installations on framed construction not involving fire-resisting or acoustic requirements. It does not cover all applications and, under *0171 General requirements*, the contractor is required to use manufactured products (such as plasterboard) in conformance with the manufacturer's written instructions. In this case these are far more comprehensive than the standard, which may therefore be deleted here.

It is suggested that the specifier schedule (or show on the drawings) additional requirements in terms of fire-resistance or R_w rating or alternatively describe the construction required in terms of sheet finish, edge treatments, thickness, type and number of layers and ceiling treatment.

The manufacturer's literature gives much more comprehensive guidance than is possible here.

Finish level: [complete/delete]

For larger or more complex projects, consider scheduling finish levels in SELECTIONS:

- Level 3: For concealed surfaces.
- Level 4: Default level for gypsum plasterboard lining unless specified otherwise. Do not use Level 4 if high gloss paints or raking lighting will be used.
- Level 5: For surfaces where gloss or semi-gloss paints are used or where critical lighting conditions occur on flat, matt or low sheen paints.

Multiple sheet layers

Application: Fire-resisting and acoustic rated partitions.

Joints:

- Fill and flush up all joints and fixings in each layer and caulk up perimeters and penetrations before installing following layers.
- Stagger all sheet joints: Minimum 200 mm.

Joints and joint treatment

Edit to suit project requirements.

General: Install joint accessories as documented, in conformance with manufacturer's recommendations. Install plumb, level and true to line.

Flush joints: Use joint reinforcing tape bedded in joint compound with recessed edge sheets and finish flush.

Butt joints: Make joints over framing members or provide back blocking.

External corner joints: Bed purpose fabricated perforated metallic-coated steel corner beads in joint compound.

Ceiling junctions: Install purpose fabricated perforated metallic-coated steel shadowline to top of partition.

Sheet metal partition end caps: Provide purpose fabricated perforated metallic-coated steel end caps, sized for partition thickness and bedded in joint compound.

MDF end caps: Provide recessed edge sheets and finish flush using joint reinforcing tape and joint compound.

Dry joints: Provide square edged sheet and finish with a PVC-U joining section.

Control joints: Provide purpose-made perforated metallic-coated control joint beads at not more than 12 m centres in partitions and to coincide with structural control joints. Bed in joint compound.

Wet areas: Provide additional supports, flashings, trim and sealants as required.

Joints in tiled areas: Bed reinforcing tape in joint compound. Do not apply a topping coat.

3.5 FIBRE CEMENT

Installation

Many of the installation details for flush joints in fibre cement are similar to those for plasterboard.

General: Install as follows:

- Run sheets across the framing members.
- In flush jointed applications, stagger end joints in a brick pattern and locate joints on framing members, away from the corners of large openings.
- Provide supports at edges and joints.
- Do not fix to top and bottom plates or noggings.

Timber framing: Nail only or combined with adhesive.

Steel framing: Screw only or combined with adhesive.

Tiled and wet areas: Provide an extra row of noggings immediately above wall-to-floor flashings. Fix sheet at 150 mm centres to each stud and around the perimeter of the sheet. Do not use adhesive fixing alone.

Multiple sheet layers

Application: Fire-resisting and acoustic rated partitions.

Joints:

- Fill and flush up all joints and fixings in each layer and caulk up perimeters and penetrations before installing following layers.
- Stagger all sheet joints: Minimum 200 mm.

Joints and joint treatment

Edit to suit project requirements.

General: Install joint accessories as documented, in conformance with manufacturer's recommendations. Install plumb, level and true to line.

Flush joints: Use joint reinforcing tape bedded in joint compound with recessed edge sheets and finish flush.

External corner joints: Bed purpose fabricated perforated metallic corner beads in joint compound.

Ceiling junctions: Install purpose fabricated perforated metallic-coated steel shadowline to top of partition.

Sheet metal partition end caps: Provide purpose fabricated perforated metallic-coated steel end caps, sized for partition thickness and bedded in joint compound.

MDF end caps: Provide recessed edge sheets and finish flush using joint reinforcing tape and joint compound.

Dry joints: Use square edged sheet and finish with a PVC-U joining section.

Control joints: Provide control joints to coincide with structural control joints and as follows:

- Walls: ≤ 7.2 m centres.
- Control joint beads: Purpose-made metallic-coated.
- Support: Provide framing parallel to the joint on each side. Do not fix the lining to abutting building surfaces.

Wet areas: Provide additional supports, flashings, trim and sealants as required.

Joints in tiled areas: Bed reinforcing tape in joint compound. Do not apply a topping coat.

- Control joints: At maximum 4.2 m centres and spaced to suit joints required in tiling.
- Internal corners: Reinforce with metallic-coated steel angles. In corners subject to continuous moisture, flash over the angle and under the sheeting with continuous bitumen coated aluminium flashing.

3.6 PLENUM BAFFLES

Baffles

Plenum baffles may be required for sound attenuation or to maintain fire-resistance levels where rated partitions do not extend to the underside of the structural soffit.

General: Install plenum baffles tightly butted to building structure, service ducts, pipes and conduits and to the top of the partition or to the top of the suspended ceiling directly above the line of the partition. Seal joints, penetrations and intersections and maintain the required performance.

Bulk insulation: Install individual layers to fill space between building structure and the top of the partition or the top of the suspended ceiling.

Flexible sheet insulation: Fix to soffit through a continuous furring channel, hang to meet the top of the partition and extend horizontally 900 mm over the suspended ceiling.

Delete this subclause if 0472 Acoustic insulation is included.

Fire-resisting partitions

General: If a suspended ceiling of equivalent fire-resistance is not provided, either extend the partitions to the underside of the structural soffit, or provide plenum baffles of equivalent fire-resistance level.

Edit, or delete if detailed.

Acoustic rated partitions

General: If a suspended ceiling of equivalent sound insulation rating is not provided, either extend the partitions to the underside of the structural soffit, or provide acoustic rated plenum baffles. The ceiling and baffle to provide a combined rating equivalent to the partition rating.

Edit, or delete if detailed.

3.7 COMPLETION

Rectification

General: Correct any defects to joints, remove any excess joint compound, and leave the partition installation complete, clean and ready for the application of finishes.

4 SELECTIONS

Schedules are a tool to specify properties required for products or systems. If the principal permits documentation of the product or system by proprietary name, some of the properties may be unnecessary and can be deleted. Document the product or system's location or application here and/or on the drawings with a matching project code. Refer to NATSPEC TECHnote GEN 024 for guidance on using and editing schedules.

4.1 RONDO PARTITION SCHEDULES

Partition performance schedule

	P1	P2	P3
Fire hazard properties: Group number			
Fire-resistance level (FRL)			
Airborne sound insulation			

The codes in the header row of the schedule designate each application or location of the item scheduled. Edit the codes to match those in other contract documents.

Fire hazard properties: Group number: Refer to BCA (2022) Spec 7.

Fire-resistance level (FRL): If required, nominate the FRL to AS 1530.4 (2014). See NATSPEC TECHnote DES 020 on fire behaviours of building materials and assemblies.

Airborne sound insulation: State the required rating to AS/NZS ISO 717.1 (2004) for either the weighted sound reduction index (R_w) or weighted sound reduction index with spectrum adaptation ($R_w + C_{tr}$). This rating is for a building system e.g. partition wall, of which the building element is only one component. It may be better to provide the rating in the appropriate system schedule. It is advisable to obtain the advice of an acoustic consultant on the selection of an R_w or $R_w + C_{tr}$ rating for airborne sound transmission reduction. Refer to NATSPEC TECHnote DES 032 for information.

RONDO light steel framing schedule

	P1	P2	P3
Partition type			
Member size: Lipped wall studs			
Member size: C channel wall studs			
Member size: Wall stud tracks			
Member size: Deflection head tracks			
Nogging tracks			
Stud spacing			

	P1	P2	P3
Stud thickness (BMT) (mm): Non-fire-resisting			
Stud thickness (BMT) (mm): Fire-resisting			
Configuration			
Floor to suspended ceiling			
Floor to structural soffit			
Cavity wall: With bridging			
Cavity wall: Without bridging			
Staggered stud wall			
Curved wall			
Acoustic chase wall			

The codes in the header row of the schedule designate each application or location of the item scheduled. Edit the codes to match those in other contract documents.

Product: Select from the following:

- RONDO Steel stud drywall framing system.
- RONDO MAXIFRAME® External wall framing system. If external walls are load bearing, contact RONDO.
- RONDO QUIET STUD® Acoustic stud system.
- RONDO DUPLEX® Internal stud framing system.
- RONDO SHAFTWALL system.
- Select sizes and stud spacing to suit the lining details, partition type and the maximum wall height as set out in the tables published by RONDO.

Partition types: Single leaf walls, Cavity walls with or without bridging, Staggered stud wall frames, Curved walls.

Sheet lining schedule

	P1	P2	P3
Material			
Grade/type			
Lining system			
Level of finish			
Thickness (mm)			
Configuration			
Edge type			
Joint type			
Fixing			
Cornice			

The codes in the header row of the schedule designate each application or location of the item scheduled. Edit the codes to match those in other contract documents.

Material: Plasterboard, fibre cement or select other materials from 0511 Lining.

Plasterboard grade: AS/NZS 2588 (2018) defines four grades by performance requirements:

- Standard.
- Bracing.
- Water resistant.
- Fire-resistant.

Consult the manufacturer's literature for information on availability and system performance. Fire-resistant materials can be most easily identified by proprietary item.

Fibre cement grade: The standard for cellulose fibre cement flat sheets AS/NZS 2908.2 (2000) classifies sheets according to their application (Type A or B) and mechanical and minimum modulus of rupture (Category 1, 2, 3, 4 and 5). Internal linings are Type B Category 2.

Lining system: Select to suit the wall function i.e. fire-resisting partitions, acoustic requirements. Consider nominating a supplier's system reference number to make sure the requirements of particular properties are achieved, e.g. CSR 075 for FRL of -/120/120 and acoustic rating of R_w 45 to 54.

Level of finish: To AS/NZS 2589 (2017).

- Level 3: For concealed surfaces.
- Level 4: Default level for plasterboard lining unless specified otherwise.
- Level 5: For surfaces where gloss or semi-gloss paints are used or where critical lighting conditions occur on flat, matt or low sheen paints.

Fire-resisting construction has particular abutment requirements.

Configuration: e.g. Horizontal, vertical, double thickness.

Joint type: e.g. Butt or flush.

Cornice:

- For flush jointed sheeting e.g. plasterboard, scotia cornice is available in 55 mm, 75 mm or 90 mm.
- Shadowline trim at top wall track.
- Set plaster joint.
- Refer to **Trim schedule**.

Trim schedule

	T1	T2	T3
Head frame/end cap: Product code			
Head frame/end cap: Finish			
Head frame/end cap: Colour			
Skirting: Product code			
Skirting: Finish			
Skirting: Colour			
Ducted skirtings: Height			
Ducted skirtings: Faceplate finish			
Ducted skirtings: Number of channels			

The codes in the header row of the schedule designate each application or location of the item scheduled. Edit the codes to match those in other contract documents.

REFERENCED DOCUMENTS

The following documents are incorporated into this worksection by reference:

AS ISO 717		Acoustics - Rating of sound insulation in buildings and of building elements
AS/NZS ISO 717.1	2004	Airborne sound insulation
AS/NZS 1170		Structural design actions
AS/NZS 1170.2	2021	Wind actions
AS 1170.4	2007	Earthquake actions in Australia

AS 1397	2021	Continuous hot-dip metallic coated steel sheet and strip - Coatings of zinc and zinc alloyed with aluminium and magnesium
AS 1530		Methods for fire tests on building materials, components and structures
AS 1530.4	2014	Fire-resistance tests for elements of construction
AS/NZS 2588	2018	Gypsum plasterboard
AS/NZS 2589	2017	Gypsum linings - Application and finishing
AS/NZS 2908		Cellulose-cement products
AS/NZS 2908.2	2000	Flat sheets
AS/NZS 3000	2018	Electrical installations (known as the Australian/New Zealand Wiring Rules)
AS/NZS 4600	2018	Cold-formed steel structures
AS 5637		Determination of fire hazard properties
AS 5637.1	2015	Wall and ceiling linings
ASTM E72	2015	Standard test method of conducting strength tests of panels for building construction
ASTM E695	2003	Standard test method for measuring relative resistance of wall, floor and roof construction to impact loading
The following documents are mentioned only in the <i>Guidance</i> text:		
AS/NZS 1859		Reconstituted wood-based panels - Specifications
AS 1859.1	2017	Particleboard
AS/NZS 1859.2	2017	Dry process fibreboard
BCA C2D9	2022	Fire resistance - Fire resistance and stability - Lightweight construction
BCA Spec 6	2022	Fire resistance - Structural tests for lightweight construction
BCA Spec 7	2022	Fire resistance - Fire hazard properties
NATSPEC DES 020		Fire behaviour of building materials and assemblies
NATSPEC DES 032		Airborne sound insulation
NATSPEC GEN 006		Product specifying and substitution
NATSPEC GEN 024		Using NATSPEC selections schedules
NATSPEC TR 01		Specifying ESD
ASTM E72	2022	Standard test method of conducting strength tests of panels for building construction
ASTM E695	2022	Standard test method for measuring relative resistance of wall, floor and roof construction to impact loading