

0472P CSR BRADFORD IN ACOUSTIC INSULATION
--

Branded worksection

This branded worksection *Template* has been developed by NATSPEC in conjunction with **CSR Bradford** 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 branded worksection *Template* is applicable to CSR Bradford acoustic insulation for floors, walls and ceilings to reduce the transmission of airborne and impact sound between individual rooms.

Background

For information on sound insulation and the BCA, refer to the non-mandatory ABCB Sound insulation handbook. This sets out the objectives of the BCA, acoustic issues covered, the compliance process and options to satisfy the BCA. Appropriate design and detailing is essential particularly for flanking sound and services penetrations. The handbook includes typical details, notes on construction and recommended design practices.

Sound insulation properties need to be specified by means of the appropriate quantities which must be described using the correct terms, symbols and units. Refer to NATSPEC TECHnote DES 027 and NATSPEC TECHnote DES 032 for information on impact and airborne sound insulation.

Guidance text

All text within these boxes is provided as guidance for developing this worksection and should not form part of the final specification. This *Guidance* text may be hidden or deleted from the document using the NATSPEC Toolbar or the hidden text *Hide* and *Delete* functions of your word processing system. For additional information visit FAQs at www.natspec.com.au.

Optional style text

Text in this font (blue with a grey background) covers items specified less frequently. It is provided for incorporation into *Normal* style text where it is applicable to a project.

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:

- *0453 Doors and access panels* and *0455 Door hardware* for acoustic rated doors.
- *0471 Thermal insulation and pliable membranes* for thermal and acoustic insulation to roofs and external walls.
- *0471p CSR BRADFORD in thermal insulation and pliable membranes* for thermal insulation to roofs, floors and external walls.
- *0520 Partitions – combined* for acoustic rated partitions.
- *0527 Room dividers* for acoustic seals to operable wall assemblies.
- *0531 Suspended ceilings – combined* for acoustic ceiling tile suspended ceiling systems.
- *0631 Ceramic tiling, 0632 Stone and terrazzo tiling, 0651 Resilient finishes, 0654 Engineered panel flooring or 0655 Timber flooring* for acoustic floor underlays for impact sound insulation.

Material not provided by CSR Bradford

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

- Board insulation.
- Flexible sheet insulation.
- Polyester blankets and batts.

Documenting this and related work

You may document this and related work as follows:

- Acoustic insulation forms part of a floor, wall or ceiling/roof system to achieve the required sound insulation rating. Document the sound insulation rating in the appropriate worksection. The BCA allows a maximum deviation of 5 dBa for walls/floors airborne sound transmission and 0 for impact sound transmission in performance between field and laboratory test results for class 2 and 3 buildings at BCA FV5.1 and BCA FV5.2. Refer to NATSPEC TECHnote DES 027 on impact sound insulation and NATSPEC TECHnote DES 032 on airborne sound insulation.
- The requirements for acoustic rated doors are best documented in a door schedule and in the *0453 Doors and access panels, Room dividers* and *0455 Door hardware* worksections.
- Document underlays which are compatible with other components of a flooring system, particularly wet area membranes and adhesives.

- Ceiling tiles with acoustic properties can be documented in **SELECTIONS** of the 0531 *Suspended ceilings – combined* worksection.

Specifying ESD

The following may be specified by retaining default text:

- Recycled rubber/cork flexible sheets.
- Non-irritating polyester blankets and batts.

The following may be specified by including additional text:

- Recycled material content, e.g. recycled waste glass in glass wool insulation.
- Wood wool insulation boards with no VOCs.

Refer to the NATSPEC TECHreport TR 01 on specifying ESD.

1 GENERAL

CSR Bradford, a division of CSR Building Products Limited, is a leading manufacturer and distributor of premium energy efficiency products and services including insulation, construction fabrics, ventilation products, solar PV systems, hot water systems, Tesla batteries and associated energy efficiency products. Established in 1934, CSR Bradford includes Edmonds ventilation products and Martini decorative and commercial acoustic polyester insulation products. The CSR Bradford range includes thermal and acoustic solutions for residential, commercial and industrial applications including glasswool and rockwool insulation, reflective foil laminates, as well as specialty commercial products.

1.1 RESPONSIBILITIES

General

Requirement: Provide CSR Bradford acoustic insulation, as documented.

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

It is the responsibility of the designer to nominate and detail floor, wall and ceiling systems containing acoustic insulation conforming to the requirements of the BCA for sound insulation. If the design brief calls for outcomes beyond those of the BCA, document in the relevant worksection or on the drawings.

1.2 COMPANY CONTACTS

CSR BRADFORD technical contacts

Website: www.bradfordinsulation.com.au

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

Design guides, product data sheets and safety data sheets: www.bradfordinsulation.com.au

1.5 INTERPRETATION

Definitions

General: For the purposes of this worksection the following definitions apply:

- Acoustic insulation: Materials or methods of construction to reduce the transmission of airborne and structure-borne sound through floors, walls and ceilings or other enclosing elements in buildings.
- Acoustic material: Building material with specific acoustic properties to achieve sound transmission loss, sound absorption, damping of resonance or resilience against impact noise.

- Acoustic underlay: A resilient material laid between the structural floor and the flooring material to provide sound isolation.
- Airborne sound: Sound radiated directly from a source, such as a loudspeaker or machine, into the surrounding air.
- Fire hazard properties: To BCA A2.4.

- This includes the Average specific extinction area, Critical radiant flux, Flammability Index, Smoke-Developed Index, Smoke growth rate index, Smoke development rate or Spread-of-Flame Index of a material or assembly as applicable.
- See NATSPEC TECHnote DES 003 for more information on fire hazard properties of insulation and pliable membranes.

- Fibre batts: Flexible insulation supplied as factory cut pieces and composed of mineral wool (glass and rock fibre) or polyester fibre.
- FBS-1 (fibre-bio-soluble) mineral wool: Insulation composed of bio-soluble glass or rock fibres.
- Impact sound: Sound caused by impacts on building structure. Typical sources include footsteps, dropped objects on horizontal surfaces and the slamming of doors.
- Sound insulation (isolation): Reduction of sound energy passing through building elements.
- Structure-borne sound: Sound waves transmitted within the building structure and re-radiated into other spaces as airborne sound. Typical sources include direct impact from dropped objects and vibrating machinery.

Edit the **Definitions** subclause to suit the project or delete if not required. List alphabetically.

1.6 SUBMISSIONS

Fire hazard properties

Requirement: Submit evidence of conformance to PRODUCTS, **GENERAL**, Fire hazard properties.

Products and materials

Evidence required: [complete/delete]

This is primarily to verify claimed acoustic insulation values for BCA compliance.

Warranties

Manufacturer's published product warranties: Submit on completion.

Describe the requirements of warranties in **PRODUCTS** or **EXECUTION**, as appropriate, and list the submissions required here.

1.7 INSPECTION

Notice

Inspection: Give notice so inspection may be made of the insulation installed before it is covered up or concealed.

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 **PRODUCTS, GENERAL, Substitutions** in *0171 General requirements*.

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

Fire hazard properties

See NATSPEC TECHnote DES 003 for more information on the fire hazard properties of insulation materials and NATSPEC TECHnote DES 020 on fire behaviour of building materials and assemblies. See also BCA Spec C1.10 Table 4.

Fire hazard indices for all materials: Conform to the following tested to AS/NZS 1530.3:

- Spread-of-Flame Index: ≤ 9 .
- Smoke-Developed Index: ≤ 8 if Spread-of-Flame Index > 5 .

Facing materials Flammability Index tested to AS 1530.2: ≤ 5 .

Flammability Index is determined under AS 1530.2. See BCA C1.10. There has been some debate about the adequacy of the test procedure in predicting performance of material in real fire situations. Specifiers wishing for more stringent fire performance

could consider requiring that both insulation material and facing individually meet the fire hazard indices, not just as a composite material.

Non-combustible construction required: [complete/delete]

List any parts of the project that the BCA requires to be non-combustible or delete, if none. The BCA requires that construction required to be non-combustible (e.g. fire walls and spandrels with a specific FRL) must be constructed wholly of materials that are not deemed combustible. In other situations the BCA does not prohibit the use of combustible insulation materials provided they meet the other fire properties.

Bradford™ Acoustigard™ Partition Roll:

- Ignitability index: 0.
- Spread-of-flame index: 0.
- Heat-evolved index: 0.
- Smoke-developed index: 0 to 1.

Bradford™ BSB Acoustic Baffles:

- Ignitability index: 0.
- Spread-of-flame index: 0.
- Heat-evolved index: 0.
- Smoke-developed index: 1.

Marking

Identification: 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 INSULATION MATERIALS

Bulk insulation

Mineral wool and polyester insulation generally provide both thermal and acoustic insulation. Acoustic insulation is provided in a range of densities, the higher the density the greater the sound insulation rating of the insulation.

AS/NZS 4859.1 specifies the requirements for thermal insulation materials and is applicable to acoustic insulation which can also be used as thermal insulation.

Mineral wool blankets and batts: To **CSR BRADFORD INSULATION PRODUCTS**.

Polyester blankets and batts: Thermally bonded polyester fibres.

Board insulation

Mineral wool panels: High density glasswool and rockwool bonded with thermosetting resin.

Wet processed fibreboard (including softboard): To AS/NZS 1859.4.

Composite plasterboard panels: Proprietary items.

Flexible sheet insulation

Impregnated vinyl: Lead impregnated vinyl sheeting.

Recycled rubber/cork: Recycled rubber granules and/or cork bound with polymers.

Fasteners and supports

General: Metallic-coated steel.

CSR Bradford fasteners and supports: To CSR Bradford's recommendations.

Consider nominating stainless steel in areas of high corrosivity.

Resilient mounts: Proprietary fixing clips with rubber or acrylic pads.

Adhesives

General: Compatible with the substrate and the insulation.

Sealants

Acoustic sealant: Non-hardening sealant compatible with the substrate materials.

Alternatives: Fire-resisting sealants may meet most acoustic properties.

Fire-resisting sealant: Non-hardening sealant compatible with the substrate materials and having a fire-resistance rating equal to that of the building element it seals.

Sealant strips: Closed cell resilient foam.

2.3 CSR BRADFORD INSULATION PRODUCTS**Bradford™ SoundScreen™**

Description: High density mineral wool bonded with a thermosetting resin.

Application: Soundscreen™ can be used for floor, ceiling, and internal and external wall cavities. It is designed to suit standard stud and joist centres of 450 and 600 mm. Select from the following sizes:

- Timber studs: 430 and 580 mm.
- Steel studs: 600 mm.

Bradford™ Acoustigard™ Partition Roll

Description: Glass wool fibres, fibre bio-soluble (FBS-1) of up to 65% recycled glass, bonded with a thermosetting resin.

Application: Acoustigard™ Partition Roll can be used in metal framed internal partition wall and ceiling assemblies including in the following:

- High and low rise multi-residential buildings.
- Commercial office buildings and shopping centre fit-outs.
- Ceiling baffles.

Maximum service temperature: 350°C.

Moisture absorption by volume: Less than 0.2%.

Bradford™ BSB Acoustic Baffles

Description: Glass wool fibres, fibre bio-soluble (FBS-1) of up to 65% recycled glass, bonded with organic binder technology (OBT) resin.

OBT is derived from natural plant based raw materials and is a sustainable alternative to traditional binders or polyester fibre insulation.

Application: BSB™ Acoustic Baffles can be used in:

- High and low rise multi-residential buildings.
- Commercial office buildings and hotel fit-outs.
- Internal walls of meeting and conference rooms.
- Hospitals, schools and other community buildings.
- Acoustic baffles to reduce flanking noise between rooms.

Moisture absorption by volume: Less than 0.2%.

Warranties

Product warranty: 70 years.

Ceiling installation warranty: 5 years.

3 EXECUTION**3.1 GENERAL****Bulk insulation**

General: Install to the manufacturer's recommendations, firmly butt together fibre blankets or batts, with no gaps except as follows:

- Access openings and vents: Do not obstruct.
- Light fittings: To AS/NZS 3000 clause 4.5.
- Electrical cables: To AS 3999 clause 2.6.

The flow of electric current in cables generates heat which needs to dissipate to the surroundings. The insulation should not be installed to completely surround the cable.

Glasswool and rockwool insulation: Conform to the ICANZ Industry code of practice for the safe use of glass wool and rock wool insulation *Industry Code of Practice for the Safe Use of Glass Wool and Rock Wool Insulation*.

The ICANZ Industry code of practice for the safe use of glass wool and rock wool insulation *Industry Code of Practice for the Safe Use of Glass Wool and Rock Wool Insulation* has been jointly developed by AMWU, CFMEU, CEPU, and ICANZ (formerly FARIMA). Copies of the code are available from the respective unions, insulation manufacturers and ICANZ.

Marking: Deliver mineral wool products to site in packaging labelled FBS-1 BIOSOLUBLE INSULATION.

See the NATSPEC TECHnote PRO 002 for more information on FBS-1 labelling.

3.2 FLOOR INSULATION

The following covers general applications for floor insulation. Delete applications not required and add other applications, as appropriate.

Under suspended framed floors – bulk insulation

Product type: Fibre batts.

Installation: Fit tightly between framing members. If support is not otherwise provided, staple nylon twine to the framing and stretch tight.

Under suspended framed floors – rigid insulation

Product type: Mineral wool panels.

Installation: [complete/delete]

Select from:

- To the underside of timber strip flooring butted tightly to joists.
- To the underside of timber joists butted tightly to bearers.

Check the selected product for fire hazard properties if the insulation is exposed.

Fixing: [complete/delete]

Select adhesive or mechanical fasteners.

Over concrete slab – rigid insulation

Product type: Mineral wool panels.

Substrate preparation: Prepare substrates are as follows:

- Clean and remove of any deposit or finish which may impair adhesion or location of insulation.
- Remove excessive projections.
- Voids and hollows > 10 mm with abrupt edges: Fill with a cement:sand mix not stronger than the substrate or weaker than the bedding.

Laying pattern: Stretcher bond, with edges tightly butted.

Fixing: Adhesive fix directly to the concrete floor slab.

Subsequent finishes: [complete/delete]

Note separation strip, screed and finish, as appropriate.

Under suspended concrete slab – rigid insulation

Use where slab incorporates in-slab heating or the slab separates a conditioned space from an unconditioned space.

Product type: Mineral wool panels.

Fixing: [complete/delete]

Select adhesive or mechanical fasteners.

Soffit finish: [complete/delete]

Select a finish to provide the desired appearance if exposed to view or if fire hazard properties are required.

Under suspended concrete slab – bulk insulation

Use where slab incorporates in-slab heating or the slab separates a conditioned space from an unconditioned space.

Product type: Fibre batts.

Fixing: Mechanical fasteners and support mesh or nylon twine.

Soffit finish: [complete/delete]

Select a finish to provide the desired appearance if exposed to view or if fire hazard properties are required.

Flooring underlays

Preparation: [complete/delete]

To the relevant flooring worksection, e.g. 0631 Ceramic tiling, 0632 Stone and terrazzo tiling, 0651 Resilient finishes, 0654 Engineered panel flooring and 0655 Timber flooring worksection.

Handling: Store horizontally and keep dry.

Conditioning: Roll out underlay and leave in place for a minimum of 12 hours to acclimatise.

Installation: [complete/delete]

e.g. Adhesive fixed, Loose laid.

3.3 WALL SYSTEMS

Framed walls and partitions – bulk insulation

Product type: Fibre batts.

Installation: Friction fit between framing members. If other support is not provided, staple nylon twine to the framing and stretch tight.

AS 3999 includes directives on fixing of insulation often deferring to the manufacturer's recommendations on the type and spacing of fixing devices. Preferably show fixing details on the drawings.

Framed walls and partitions – rigid insulation

Product type: Mineral wool panels.

Installation: Fix to face of studs with adhesive and temporarily fasten with single screw until plasterboard installed.

Full masonry – cavity walls

Product type: [complete/delete]

Fixing: [complete/delete]

Nominate a product or describe generically. Products include purpose-made plastic clips over purpose-made wall ties.

Sheet size: Select or cut to suit wall tie spacing.

Flashings: Install flashings before installing insulation. Prevent entry of water behind the insulation.

If construction is required to be non-combustible, check BCA Spec C1.10.

Full masonry walls – internal face

Insulation fixed to the inner face of masonry walls may also be used for retrofitting of insulation to existing walls.

Product type: Mineral wool panels.

Preparation of substrates: Conform to the following:

- Remove any deposit or finish which may impair adhesion.
- Remove excessive projections and fill voids and hollows with plaster.
- Maximum surface deviation from a 2400 mm straightedge: 6 mm.

Substrate correction: Skim plaster.

Installation: Apply boards horizontally with staggered vertical joints, all close butted and without crushing.

Fixing: Adhesive compatible with the insulation. Apply sufficient pressure to evenly distribute adhesive.

If the construction is required to be non-combustible, see BCA Spec C1.10.

3.4 CEILINGS

Suspended ceilings – bulk insulation

Product type: Fibre batts and blankets.

Installation: Lay batts/blankets over the ceiling system close butted to each other and to the suspension rods.

Framed ceilings – bulk insulation

Product type: Fibre batts.

Installation: Fit tightly between framing members. If support is not otherwise provided, staple nylon twine to the framing and stretch tight.

3.5 PLENUM BAFFLES

Baffles

Required for sound attenuation when partitions do not extend to the underside of the structural soffit.

General: Install plenum baffles so that they fit closely up to the surfaces of the building structure, service ducts, pipes and conduits and to the top of the partition or the suspended ceiling structure directly above the line of the partition. Seal the joints, penetrations and intersections and maintain the documented acoustic performance.

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

Flexible sheet plenum baffles: 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.

3.6 FLANKING SOUND INSULATION

To preserve the sound reduction properties of acoustic rated floor, wall and ceiling systems seal the flanking sound transmission paths during installation, including junctions between systems and other building surfaces, air gaps around doorsets, recesses, such as pelmets and blind boxes and cut-outs for services.

Penetrations

Ductwork and piping: [complete/delete]

The 0171 General requirements worksection calls for the maintenance of the acoustic rating of the penetration. Delete if not appropriate.

Abutments

The insulation of flanking sound at abutments is project specific and relies on details, particularly at partition junctions to window mullions that may be subject to horizontal deflection movements.

Seal:

- Strip: [complete/delete]
- Sealant: [complete/delete]

e.g. Closed cell foam strips and gunned acoustic sealant.

Trims: [complete/delete]

e.g. Project specific architrave material to protect the sealant and allow movement.

Cable management

Power outlets: Do not install general purpose socket outlets back to back. Separate adjoining socket outlets with a continuous layer of the nominated wall insulating material.

Alternative: Proprietary acoustic isolated back to back outlets.

Ducted skirtings: If a ducted skirting extends continuously across an abutment, pack the cavities firmly with bulk insulating material for 300 mm each side of the abutment and scribe and seal the joint.

4 SELECTIONS

Schedules are a way of documenting a selection of proprietary or generic products or systems by their properties. Indicate their locations here and/or on the drawings. Refer to NATSPEC TECHnote GEN 024 for guidance on using and editing schedules.

4.1 SCHEDULES

Bradford™ SoundScreen™ schedule

Property	A	B	C	D
Product	SoundScreen™ R1.7	SoundScreen™ R2.0	SoundScreen™ R2.5	SoundScreen™ R3.1
R-Value (m ² K/W)	R1.7	R2.0	R2.5	R3.1
Thickness (mm)	60	70	88	110
Density (kg/m ³)	24	25.71	24	24
Length (mm)	1160/1200	1160/1200	1160	1160
Width (mm)	430/580/600	430/580/600	430/580	430/580

Property	A	B	C	D
Application	Walls and floors	Walls, floors and ceilings	Walls, floors and ceilings	Walls, floors and ceilings

Bradford™ Acoustigard™ 11 Partition Rolls schedule

Property	A	C	E	F
Density (kg/m ³)	11	11	11	11
R-Value (m ² K/W)	R1.2	R1.7	R2.5	R3.5
Thickness (mm)	50	75	110	165
Width (mm)	450/600	450/600	600	600
Application	Internal walls and ceilings	Internal walls and ceilings	Internal walls and ceilings	Internal walls and ceilings

Bradford™ Acoustigard™ 14 Partition Rolls schedule

Property	A	B	C	D
Density (kg/m ³)	14	14	14	14.5
R-Value (m ² K/W)	R1.3	R1.8	R2.2	R2.5
Thickness (mm)	50	75	90	100
Width (mm)	450/600	450/600	450/600	450/600
Application	Internal walls and ceilings	Internal walls and ceilings	Internal walls and ceilings	Internal walls and ceilings

Bradford™ Acoustigard™ 18 Partition Rolls schedule

Property	A	B	D
Density (kg/m ³)	18	18	18
R-Value (m ² K/W)	R0.7	R1.3	R2.0
Thickness (mm)	25	50	75
Width (mm)	600	450/600	450/600
Application	Internal walls and ceilings	Internal walls and ceilings	Internal walls and ceilings

Bradford™ Acoustigard™ 20 Partition Rolls schedule

Property	A	B	D
Density (kg/m ³)	20	20	20
R-Value (m ² K/W)	R1.4	R2.0	R2.5
Thickness (mm)	50	75	90
Width (mm)	450/600	450/600	450/600
Application	Internal walls and ceilings	Internal walls and ceilings	Internal walls and ceilings

Bradford™ Acoustigard™ 24 Partition Rolls schedule

Property	A	B
Density (kg/m ³)	24	24
R-Value (m ² K/W)	R1.4	R2.1
Thickness (mm)	50	75
Width (mm)	450/600	450/600
Application	Internal walls and ceilings	Internal walls and ceilings

Bradford™ Acoustigard™ 32 Partition Rolls schedule

Property	A	B
Density (kg/m ³)	32	32
R-Value (m ² K/W)	R1.5	R2.2
Thickness (mm)	50	75
Width (mm)	450/600	450/600
Application	Internal walls and ceilings	Internal walls and ceilings

Bradford™ BSB Acoustic Baffles schedule

Property	A
Product	BSB Acoustic Baffle
Density (kg/m ³)	10
Thickness (mm)	100
Width (mm)	600
Length (m)	1.2
Application	Ceilings

Board insulation schedule

Property	A	B	C
Product			
Material			
Type			
Thickness (mm)			
Density (kg/m ³)			
Application			

A, B, C: These designate each instance or type or location of the item scheduled. Edit to align with the project's codes or tags.

Edit codes in the **Schedule** to match those on drawings.

Product: If the system is specified by proprietary name, some of the other schedule items may be unnecessary and can be deleted.

Material: Compressed glasswool, recycled rubber, composite plasterboard.

Some manufacturers offer a heavy density compressed glasswool panels with the following physical characteristics:

- Thickness: 13 mm.
- Density: 168 kg/m³.

Application: Cavity masonry, floor underlay, floor/wall framing, etc.

Flexible sheet insulation schedule

Property	A	B	C
Product			
Material			
Thickness (mm)			
Surface weight (kg/m ²)			
Application			

A, B, C: These designate each instance or type or location of the item scheduled. Edit to align with the project's codes or tags.

Edit codes in the **Schedule** to match those on drawings.

Product: If the system is specified by proprietary name, some of the other schedule items may be unnecessary and can be deleted.

Material: Impregnated vinyl.

Some manufacturers offer impregnated vinyl sheet with the following physical characteristics:

- Thickness: 3 mm.
- Surface weight: 4.5 kg/m².

Application: Plenum baffles, floor underlays etc.

REFERENCED DOCUMENTS

The following documents are incorporated into this worksection by reference:

AS 1530		Methods for fire tests on building materials, components and structures
AS 1530.2	1993	Test for flammability of materials
AS/NZS 1530.3	1999	Simultaneous determination of ignitability, flame propagation, heat release and smoke release
AS/NZS 1859		Reconstituted wood-based panels - Specifications
AS/NZS 1859.4	2004	Wet-processed fibreboard
AS/NZS 3000	2007	Electrical installations (known as the Australian/New Zealand Wiring Rules)
AS 3999	2015	Bulk thermal insulation - Installation
BCA A2.4	2016	General Provisions - Acceptance of design and construction - Fire hazard properties
ICANZ	2003	Industry code of practice for the safe use of glass wool and rock wool insulation

The following documents are mentioned only in the **Guidance text**:

AS/NZS 4859		Materials for the thermal insulation of buildings
AS/NZS 4859.1	2002	General criteria and technical provisions
ABCB Sound	2016	Sound insulation handbook
BCA C1.10	2016	Fire resistance - Fire resistance and stability - Fire hazard properties
BCA Spec C1.10	2016	Fire resistance - Fire hazard properties
BCA FV5.1	2016	Health and amenity - Sound transmission and insulation -Verification methods
BCA FV5.2	2016	Health and amenity - Sound transmission and insulation -Verification methods
NATSPEC DES 003	2006	Fire hazard properties of insulation and pliable membranes
NATSPEC DES 020	2011	Fire behaviour of building materials and assemblies
NATSPEC DES 027	2016	Impact sound insulation
NATSPEC DES 032	2014	Airborne sound insulation
NATSPEC GEN 006	2007	Product specifying and substitution
NATSPEC GEN 024	2015	Using NATSPEC selections schedules
NATSPEC PRO 002	2006	Mineral wool
NATSPEC TR 01	2016	Specifying ESD