

5171G GIB® PLASTERBOARD FIRE & SOUND LININGS

1. GENERAL

This section relates to the supply, fixing and jointing of GIB® plasterboard linings and accessories to timber and steel framed walls and ceilings to form:

- fire rated systems including lift shafts and ducting
- sound rated systems

1.1 RELATED WORK

Refer to 5113G GIB® PLASTERBOARD LININGS for standard linings

Refer to 5311G GIB® PLASTERBOARD TILE SUSPENDED CEILINGS for suspended ceilings

Refer to 5174G GIB® PLASTERBOARD IMPACT RESISTING LININGS for high impact linings

Refer to 5173G GIB® PLASTERBOARD RADIATION PROTECTION LININGS for radiation resisting linings

1.2 ABBREVIATIONS AND DEFINITIONS

Refer to the general section 1232 INTERPRETATION & DEFINITIONS for abbreviations and definitions used throughout the specification.

The following abbreviations apply specifically to this section:

FRR	Fire resistance rating
IIC	Impact insulation class
STC	Sound transmission class
AWCINZ	Association of Wall and Ceiling Industries New Zealand

Documents

1.3 DOCUMENTS

Refer to the general section 1233 REFERENCED DOCUMENTS. The following documents are specifically referred to in this section:

NZBC C/AS2-AS6	Protection from fire
NZBC E2/AS1	External moisture
AS 1397	Continuous hot-dip metallic coated steel sheet and strip - Coatings of zinc and zinc alloyed with aluminium and magnesium
AS/NZS 2588	Gypsum plasterboard
AS/NZS 2589	Gypsum linings - Application and finishing
AS/NZS 4600	Cold-formed steel structures
ISO 5660.1	Reaction-to-fire tests - Heat release, smoke production and mass loss rate - Part 1: Heat release rate (cone calorimeter method)
ISO 5660.2	Reaction-to-fire tests - Heat release, smoke production and mass loss rate - Part 2: Smoke production rate (dynamic measurement)

1.4 MANUFACTURER/SUPPLIER DOCUMENTS

Manufacturer's and supplier's documents relating to this part of the work:

- GIB® Site Guide (Dec 2014)
- GIB® Noise Control Systems (March 2006)
- GIB® Fire Rated Systems (October 2012)
- GIB® Rondo® Metal Ceiling Batten Systems
- GIB-Cove®
- GIB® Goldline™ Platinum Tape-on Trims
- GIB® UltraFlex® high impact corner mould
- GIB Aqualine® Wet Area Systems (March 2007)
- GIB® Tough Systems (Nov 2014)
- GIB Superline® (June 2013)
- [BRANZ Appraisal 289](#) - GIB® Fire Rated Systems
- [BRANZ Appraisal 394](#) - GIB® Noise Control Systems

GreenTag Certification - GreenTag™ GreenRate/Level C for:

- GIB® Standard (10mm & 13mm)
- GIB Fyreline® (10mm, 13mm, 16mm & 19mm)

- GIB Braceline[®] (10mm & 13mm)
- GIB[®] Noiseline[®] (10mm & 13mm)
- GIB Toughline[®] (13mm)

Manufacturer/supplier contact details

Company: Winstone Wallboards
 Web: www.gib.co.nz
 Telephone: 0800 100 442

Requirements

- 1.5 NO SUBSTITUTIONS
 Substitutions are not permitted to any specified GIB[®] systems, GIB[®] system components, GIB[®] plasterboard, associated GIB[®] products or GIB[®] accessories.
- 1.6 INSTALLER WORK SKILLS AND QUALIFICATIONS
 GIB[®] plasterboard fixers and plasterers to be experienced competent workers, familiar with GIB[®] plasterboard lining systems installation and finishing techniques. Submit evidence of experience on request. For example:
- National Certificate of Interior Systems; or
 - Certified Business members of AWCINZ.

Performance

- 1.7 INSPECTIONS AND ACCEPTANCE
 Allow for inspection of the finished plasterboard surface:
- before applying sealer and
 - before applying finish coatings or decorative papers,
- so that after assessment of the type and/or angle of illumination and its effect on the completed decorative treatment, group approval and acceptance of the surface can be given.
- 1.8 FIRE RATING REQUIREMENTS
 Provide the GIB[®] fire rated systems. Refer to SELECTIONS for system/FRR.
- 1.9 SOUND INSULATION REQUIREMENTS
 Provide the GIB[®] Noise Control Systems. Refer to SELECTIONS for system/STC. Include for forming and treating of perimeters of openings and penetrations in the elements to ensure the specified performance. Ensure absence of adjoining flanking paths.
- 1.10 SURFACE FIRE PROPERTIES - UNFINISHED BOARD
 All GIB[®] unfinished plasterboard sheet materials achieve a Group Classification of, Group 1-S to [NZBC C/AS2-AS6](#), Table 4.1, following testing in accordance with ISO 5660.1 and ISO 5660.2.

2. PRODUCTS

Materials

- 2.1 GIB[®] PLASTERBOARD
 Gypsum plaster core encased in a face and backing paper formed for standard and water resistance use to [AS/NZS 2588](#). Refer to SELECTIONS for location, type, thickness and finish.
- GIB[®] Standard plasterboard
 - GIB Ultraline[®] high quality surface plasterboard
 - GIB Fyrelime[®] fire resistant plasterboard
 - GIB Braceline[®] and Noiseline[®] Dual purpose high density sound control plasterboard
 - GIB Aqualine[®] wet area plasterboard
 - GIB Toughline[®] plasterboard
 - GIB Superline[®] plasterboard

- 2.2 CORNICE
GIB-Cove® plasterboard cornice. Refer to SELECTIONS for profile and size.

Components

- 2.3 CEILING BATTENS
GIB® Rondo® metal ceiling battens, batten joiners and perimeter channel.
- 2.4 SCREWS
GIB® Grabber® drywall screws.
- 2.5 NAILS
GIB® Nails (gold passivated).
Size: 30mm, 40mm
- 2.6 METAL ANGLE TRIMS
GIB® galvanized steel slim angle trims.
- 2.7 METAL SHAFTWALL FRAMING
GIB® RONDO® Shaftwall framing comprising CH stud, E stud and J track.
- 2.8 CONTROL JOINTS
GIB® Rondo® P35 control joints.
GIB® Goldline™ tape-on trims
- 2.9 TAPE ON TRIMS AND EDGES
GIB® Goldline™ tape-on trims and edges or GIB® UltraFlex® high impact corner mould or GIB® Levelline® Tape on trim.

Accessories

- 2.10 ADHESIVE
Timber frame and/or steel frame:
GIBFix® One ultra low VOC water based wallboard adhesive.
GIBFix® All-Bond solvent based wallboard adhesive

- 2.11 JOINTING COMPOUND

Bedding compound:	GIB Tradeset®, GIB Lite Blue®, GIB MaxSet®, GIB ProMix® All Purpose, GIB Plus 4®, GIB Trade Finish® Multi
Finishing compound:	GIB ProMix® All Purpose, GIB ProMix® Lite, GIB Trade Finish®, GIB Trade Finish® Lite, GIB Trade Finish® Multi, GIB® U-Mix, GIB Plus 4®
Cove:	GIB-Cove® Bond

- 2.12 JOINTING TAPE
GIB® paper jointing tape.
- 2.13 ACOUSTIC SEALANT
GIB Soundseal® low VOC highly flexible acoustic sealant.
- 2.14 GAP FILLER
GIB® Gap Filler low VOC multi-purpose acrylic flexible filler.

3. EXECUTION

Conditions

- 3.1 STORAGE
Store GIB® plasterboard sheets and accessories in dry conditions stored indoors out of direct sunlight in neat flat stacks on either an impervious plastic sheet or clear of the floor with no sagging and avoiding damage to ends, edges and surfaces. Reject damaged material. Refer to GIB® Site Guide (Dec 2014).

- 3.2 LEVELS OF PLASTERBOARD FINISH
Provide the selected plasterboard surfaces to the pre decorative Levels of Finish specified in [AS/NZS 2589](#).
- 3.3 CONFIRM LEVELS OF PLASTERBOARD FINISH ACCEPTANCE
Before commencing work, agree in writing upon the surface finish assessment procedure towards ensuring that the quality of finish expectations are reasonable and are subsequently obtained and acceptable.
- Do not apply decorative treatment until it is agreed in writing by the contractor, subcontractors and decorator that the specified plasterboard Level of Finish has been achieved.**
- "Levels of plasterboard finish" is a tool for specifying the required quality of finish when installing and flush stopping GIB[®] plasterboard **prior** to the application of a range of decorative finishes under various lighting conditions. Refer to [AS/NZS 2589](#).
- 3.4 SUBSTRATE
Do not commence work until the substrate is plumb, level and to the standard required by the sheet manufacturer's requirements. Refer to GIB[®] Site Guide (Dec 2014).
- 3.5 TIMBER FRAME MOISTURE CONTENT
Maximum allowable moisture content to [AS/NZS 2589](#) for timber framing at lining: 18% or less for plasterboard linings. Refer to [NZBC E2/AS1](#) and GIB[®] Site Guide (Dec 2014).
- 3.6 METAL FRAMING
Metal framing, to which gypsum lining is fixed, shall comply with AS 1397 or [AS/NZS 4600](#), as applicable. Where adhesion of gypsum linings is required, surfaces shall be free of oil, grease, dust and other foreign materials. Refer to the metal framing manufacturers specifications where high density gypsum linings (>800 kg/m³) such as GIB[®] Braceline and GIB[®] Noiseline are specified for fixing to light gauge steel framing.
- 3.7 PROTECTION
Protect surfaces; cabinetwork, fittings, equipment and finishes already in place from the possibility of water staining and stopping damage. Refer to GIB[®] Site Guide (Dec 2014).
- Application**
- 3.8 INSTALL CEILING BATTENS
Install to GIB[®] Rond[®] Ceiling Batten Systems.
- 3.9 LINING WALLS AND CEILINGS GENERALLY
Form to GIB[®] Site Guide (Dec 2014). Ensure bulk insulation thickness shall not exceed that of the wall framing.
- 3.10 BOARD ORIENTATION
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- 3.11 FORM SOUND INSULATION SYSTEMS
Form to GIB[®] Noise Control Systems.
- 3.12 FORM FIRE RATED SYSTEMS
Form to GIB[®] Fire Rated Systems and Penetrations in GIB[®] Fire Rated Systems.
- 3.13 FORM STEEL BEAM ENCLOSURES
Form to GIB[®] Fire Rated Systems.
- 3.14 RISERS, SHAFTS AND DUCTS
Form to GIB[®] Fire Rated Systems.
- 3.15 FORM CONTROL JOINTS
Form control joints to [AS/NZS 2589](#) and GIB[®] Site Guide (Dec 2014).

3.16 INSTALL COVES
Install to GIB-Cove® literature using GIB-Cove® Bond.

3.17 INSTALL TAPE-ON TRIMS
Install to GIB® Goldline™ Tape-on trims literature and/or GIB® Ultraflex® high impact corner mould literature and/or GIB® Levelline® to GIB® Site Guide (Dec 2014).

Finishing

3.18 FINISHING GENERALLY
To GIB® Site Guide (Dec 2014) and [AS/NZS 2589](#).

Completion

3.19 REPLACE
Replace damaged sheets or elements.

3.20 CLEAN DOWN
Clean down completed surfaces to remove irregularities and finally sand down with fine paper to the sheet manufacturer's requirements, to leave completely smooth and clean.

3.21 REMOVE
Remove debris, unused materials and elements from the site.

3.22 LEAVE
Leave work to the standard required by following procedures.

4. SELECTIONS

For further details on selections go to www.gib.co.nz.
Substitutions are not permitted to the following, unless stated otherwise.

Plasterboard

4.1 GIB® SOUND RATED SYSTEM
Refer to GIB® Noise Control Systems

Location	Plasterboard type / Lining requirements	STC / System specification	Finish level
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4.2 GIB® FIRE RATED SYSTEM
Refer to GIB® Fire Rated Systems and Penetrations in GIB® Fire Rated Systems.

Location / Type	Plasterboard type / Lining requirements	FRR / System specification	Finish level
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Accessories

4.3 GIB® CORNICE
Size/brand/type: ~mm

4.4 GIB® ROND® CEILING BATTENS
Brand/type: GIB® Rond® Ceiling battens

4.5 GIB® TAPE ON EDGE AND CORNER TRIMS
Brand/type: ~

4.6 GIB® EDGE PROFILES
Brand/type: ~