

5113B BPB PLASTERBOARD LININGS

1. GENERAL

This section relates to the supply, fixing and jointing of BPB Plasterboard sheets and accessories to timber and steel framed walls and ceilings to form:

- standard systems
- bracing systems
- wet area systems
- minor related fire and sound rating

Related work

1.1 RELATED SECTIONS

Refer to ~ for ~.

Documents

1.2 DOCUMENTS REFERRED TO

Documents referred to in this section are:

AS 1397	Steel sheet and strip - hot-dip, zinc-coated, or aluminium/zinc-coated
AS/NZS 2588	Gypsum plasterboard
AS/NZS 2589	Gypsum linings - Application and finishing
NZS 3602	Timber and wood-based products for use in building
NZS 3604	Timber framed buildings
NZS 3631	New Zealand timber grading rules
ASTM C630/C630M-96a	Water-resistant gypsum backing board
BRANZ technical paper P21	A wall bracing test and evaluation procedure

Documents listed above and cited in the clauses that follow are part of this specification. However, this specification takes precedence in the event of it being at variance with the cited document.

1.3 MANUFACTURER'S DOCUMENTS

Manufacturer's and supplier's documents relating to work in this section are:

BPB Plasterboard - Installation manual
BPB Plasterboard - Fire and Acoustic Systems manual
BPB Plasterboard - Bracing manual
BPB Plasterboard - Bracing anchor literature
Environmental Choice NZ, license No 1909052

Copies of the above literature are available at

Web: www.bpb.co.nz

Telephone: 09-353 2080 or 0800-272 262

Requirements

1.4 NO SUBSTITUTIONS

Substitutions are not permitted to any specified **BPB Plasterboard** systems, sheets or associated products, components or accessories.

1.5 QUALIFICATIONS

Plasterboard fixers and stoppers to be experienced competent workers, familiar with materials and techniques specified. Submit evidence of experience on request.

Performance

1.6 INSPECTIONS AND ACCEPTANCE

Inspect the finished surface of the installed plasterboard:

- 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.

- 1.7 FIRE AND SOUND RATING REQUIREMENTS
Provide BPB fire and sound rated systems as scheduled in SELECTIONS.
- 1.8 BRACING REQUIREMENTS
Provide braced wall systems using bracing rated plasterboard sheet to meet the requirements of [NZS 3604](#) when tested in accordance with BRANZ technical Paper P21.
- 1.9 CERTIFICATES, BRACING
Provide certificates and other evidence that the braced wall systems offered will comply with the standards of performance specified.
- 1.10 ENVIRONMENTAL REQUIREMENTS
All plasterboard sheets to comply with the requirements of Environmental Choice NZ, license No 1909052.

2. PRODUCTS

Materials

- 2.1 BPB PLASTERBOARD
BPB Plasterboard gypsum plaster core encased in a durable face and backing paper formed for standard use to AS/NZS 2588.
- 2.2 BPB BRACEBOARD, WALL BRACING SYSTEMS
BPB Braceboard gypsum plaster core encased in a durable face and backing paper bracing rated sheet to AS/NZS 2588.
- 2.3 BPB AQUASTOP, WATER RESISTANT SYSTEMS
BPB Aquastop gypsum plaster core containing a wax emulsion encased in a durable face and backing paper formed for standard and fire rated use to AS/NZS 2588 and for water resistance use to ASTM C630/C630M-96a.
- 2.4 CORNICE
Plasterboard, scotia pattern.

Components

- 2.5 CEILING BATTENS, METAL
0.55mm galvanized steel (275 g/m² zinc coating) battens and matching perimeter channels.
- 2.6 CEILING BATTENS, TIMBER
Species, in service moisture content and treatment as set out in [NZS 3602](#) and grading to [NZS 3631](#).
- 2.7 NAILS, TIMBER FRAME
10mm plasterboard: 30mm x 2.5mm galvanized drywall clouts
13mm plasterboard: 40mm x 2.5mm galvanized drywall clouts

Nails for fire rated systems as required by **BPB Plasterboard** specifications.

Nails for perimeter nailing for bracing systems complete with 15mm galvanized steel washers as required by **BPB Plasterboard** specifications.

- 2.8 SCREWS, TIMBER FRAME
10mm plasterboard: Type S gypsum screws 32mm x 6 gauge
13mm plasterboard: Type S gypsum screws 40mm x 6 gauge

Screws for fire rated systems as required by **BPB Plasterboard** specifications.

- 2.9 **SCREWS, STEEL FRAME / BATTENS**
10mm plasterboard: Type S gypsum screws 32mm x 6 gauge
13mm plasterboard: Type S gypsum screws 40mm x 6 gauge
- Screws for fire rated systems as required by **BPB Plasterboard** specifications.
- 2.10 **BRACING ANCHOR**
Galvanised steel 85mm x 85mm BPB Bracing Anchor Bracket used in lieu of hold down straps. Fixings include seven 8mm x 30mm hex head timber screws and a 145mm x M12 galvanized coach screw.
- 2.11 **SECTIONS AND TRIM MATERIAL**
Form from galvanized steel of a coating class not less than ZM275 to AS 1397 and fix with 30mm x 2.5mm galvanized clouts.
- 2.12 **EXTERNAL ANGLE**
Perforated.
- 2.13 **INTERNAL REINFORCING ANGLE**
Perforated.
- 2.14 **CONTROL JOINT**
With plastic protective tape.
- 2.15 **CASING BEAD**
To suit sheet thickness.
- 2.16 **J MOULD**
Extruded uPVC dimensioned to suit the sheet thickness and fixed with 25mm x 1.6mm nickel panel pins.
- 2.17 **TAPE ON EDGE TRIMS**
Tape-on paper tape and galvanized steel trims and edges.
- 2.18 **EDGE PROFILES**
Pre-formed aluminium profiles, with perforated edge trims.

Accessories

- 2.19 **ADHESIVE**
Multi-purpose water based wallboard adhesive.
- 2.20 **JOINTING COMPOUNDS**
System match bedding compound and finishing compound. Refer to **BPB Plasterboard** literature and follow the requirements on which compounds to use with which accessory and in which location, to achieve the required level of finish.
- 2.21 **TAPE**
System match reinforcing tape.

Finishes

- 2.22 **SKIMCOAT PLASTER**
Proprietary spray-on surface finish.

3. EXECUTION

Conditions

- 3.1 **HANDLE AND STORE**
Handle and store sheets and accessories in dry conditions stored indoors out of direct sunlight in neat flat stacks clear of the floor with no sagging and avoiding damage to ends, edges and surfaces. Reject damaged material.
- 3.2 **SUBSTRATE**
Do not commence work until the substrate is plumb, level and to the standard required by **BPB Plasterboard** requirements.
- 3.3 **MOISTURE CONTENT**
Maximum allowable moisture content in accordance with [NZS 3602](#) for:
Framing at lining: 16% for plasterboard linings
- 3.4 **PROTECT**
Protect surfaces, cabinetwork, fittings, equipment and finishes already in place from the possibility of water staining and stopping damage.
- 3.5 **LEVELS OF FINISH**
Provide the scheduled plasterboard surfaces to the levels of finish specified in AS/NZS 2589.
- 3.6 **LEVELS OF FINISH ACCEPTANCE**
Before commencing work, agree in writing upon the surface finish assessment procedure necessary to ensure that the levels of finish specified, along with the effect of the type and/or angle of illumination on them, are obtained and are acceptable.
- 3.7 **GENERAL REQUIREMENTS**
Leave a 10mm gap at floor level. Do not break the face paper. Position sheets to a "touch fit" with no forcing or springing into place. Run sheets over doors and under and over window openings. Apply adhesive in daubs 25mm diameter and 10mm thick. Do not place daubs at sheet perimeters or under nail and screw fixings.

Application - fixing

- 3.8 **INSTALL CEILING BATTENS**
Install in accordance with the batten manufacturer's requirements.
- 3.9 **LINE CEILINGS AND WALLS**
Line ceilings and walls with the various sheets and fix to **BPB Plasterboard** details and requirements, using tapered edge joints as far as possible. Where specified line walls by the horizontal method using long sheets, 1350mm wide where applicable. Refer to SELECTIONS.
- 3.10 **END BUTT JOINTS**
When end butt joints are unavoidable, locate staggered off the framing, back block, fix and stop to **BPB Plasterboard** details and requirements.

Application - bracing systems

- 3.11 **LINE BRACING WALLS**
Line walls with high density plasterboard sheet to form panels or systems, brace screwed or clout-washer and clout fixed to **BPB Plasterboard** details. Do not fix bracing sheets until steel bracing and/or straps are in place.
- 3.12 **LINE CEILING DIAPHRAGM**
Line ceiling with plasterboard sheet to form ceiling diaphragm, screw fixed to **BPB Plasterboard** details. Fix at edge to 140mm x 35mm secondary continuous top plate.

Application - wet area systems

- 3.13 **LINE WET AREA WALLS**
Line walls strictly in accordance with the **BPB Plasterboard** requirements.

Application - finishing sections and trim

- 3.14 **FIX EXTERNAL ANGLE**
Fix full length to external corners with clouts at 100mm centres each side staggered to **BPB Plasterboard** details and requirements.
- 3.15 **FIX INTERNAL REINFORCING ANGLE**
Fix full length to internal corners with clouts at 100mm centres each side staggered to **BPB Plasterboard** details and requirements.
- 3.16 **FIX CASING BEAD**
Fix between dissimilar materials and caulk with sound rated sealant to **BPB Plasterboard** details and requirements.
- 3.17 **FIX J MOULD**
Fix between dissimilar materials and caulk with sound rated sealant to the drawings supplied.
- 3.18 **FORM CONTROL JOINTS**
Provide at maximum 9 metre centres in long unbroken walls and 12 metre centres to ceilings to **BPB Plasterboard** details and requirements. Fix control joint section into joint by staples at 150mm both sides. Fill gap in voids with sound rated sealant. Remove plastic tape after stopping.
- 3.19 **FIX COVER MOULDS**
Fix to **BPB Plasterboard** details and requirements and to the drawings supplied.
- 3.20 **FIX CORNICE**
Fix with adhesive and mitre joints to **BPB Plasterboard** details and requirements.
- 3.21 **FORM SQUARE STOPPED CORNERS**
Form taped reinforced square stopped ceiling-to-wall angles to **BPB Plasterboard** requirements.
- 3.22 **INSTALL TAPE-ON TRIMS**
Install in accordance with the trim manufacturer's requirements.
- 3.23 **INSTALL SPECIAL EDGES AND BANDS**
Install in accordance with the edging manufacturer's requirements.

Finishing - stopping

- 3.24 **FORM JOINTS**
Fill recess with bedding compound, centre the reinforcing tape, apply a second coat of bedding compound followed by a coat of finishing compound. Allow to dry and lightly sand off, to **BPB Plasterboard** details and requirements.
- 3.25 **STOPPING NAILS AND SCREWS**
Apply two successive coats of bedding compound and a coat of finishing compound to **BPB Plasterboard** requirements.
- 3.26 **SQUARE STOPPED CORNERS**
Fill with bedding compound, centre reinforcing tape into internal angle and apply a coat of finishing compound and complete to **BPB Plasterboard** details and requirements.
- 3.27 **EXTERNAL ANGLES**
Apply two coats of bedding compound followed by a coat of finishing compound to **BPB Plasterboard** requirements.
- 3.28 **END BUTT JOINTS**
Fill, tape and coat as for tapered edge joints except that each stage is doubled in width.

- 3.29 APPLYING SKIMCOAT PLASTER
Apply spray-on or skim coat surface finish in accordance with **BPB Plasterboard** requirements.

Completion

- 3.30 REPLACE
Replace damaged sheets or elements.
- 3.31 CLEAN DOWN
Clean down completed surfaces to remove irregularities and finally sand down with fine paper to **BPB Plasterboard** requirements, to leave completely smooth and clean to the standard required for following trades.
- 3.32 REMOVE
Remove debris, unused materials and elements from the site.

4. SELECTIONS

Substitutions are not permitted to the following, unless stated otherwise.

Performance

- 4.1 FIXING
Horizontally fix and finish in the following locations:
Location: ~
Finish: Level 5

Plasterboard - standard systems

- 4.2 STANDARD PLASTERBOARD WALLS
Location: ~
Brand: **BPB Plasterboard**
Type: BPB Standard
Thickness: 10mm
Finish: Level 4
- 4.3 STANDARD PLASTERBOARD CEILINGS
Location: ~
Brand: **BPB Plasterboard**
Type: BPB Standard
Thickness: 10mm
Framing: 600mm centres
Finish: Level 4
- 4.4 WATER RESISTANT PLASTERBOARD WALLS AND CEILINGS
Location: ~
Brand: **BPB Plasterboard**
Type: BPB Aquastop
Thickness: 10mm
Finish: Level 4

Plasterboard - performance systems

- 4.5 PLASTERBOARD FIRE AND SOUND RATED SYSTEM
Location: ~
Brand: **BPB Plasterboard**
Board Type: BPB ~
Board thickness: ~mm
Layers: ~/~ layers on each side of wall
Screw fixings: ~mm x ~g
BPB system: ~
System FRR: ~
System STC: ~

Insulation: 75mm thick
Finish: Level 4

4.6 PLASTERBOARD BRACING SYSTEM
Location: ~
Brand: **BPB Plasterboard**
Board Type: BPB ~
Thickness: ~mm
System reference: ~
Fixings: 32mm x 7g large diameter head screws
Finish: Level 4

4.7 PLASTERBOARD CEILING DIAPHRAGMS
Location: ~
Brand: **BPB Plasterboard**
Board Type: BPB ~
Thickness: ~mm
Fixing: ~
Finish: Level 4

Accessories

4.8 BRACING ANCHORS
Location: ~
Brand/type: BPB Bracing Anchor

4.9 CEILING BATTENS
Location: ~
Brand/type: ~

4.10 CORNICE
Location: ~
Brand: **BGC**
Type/size: 55mm