

Sheetrock Ceiling Batten System



The high quality, low cost alternative to timber battens

USG Sheetrock Ceiling Battens are a dimensionally stable, cost effective steel system, expressly designed for screw attaching sheet linings such as plasterboard, fibrous plaster and fibre cement.

It is the obvious choice for all areas requiring a smoothly finished, monolithic ceiling plane, whether flat, vaulted or inclined.

Application

The Sheetrock Ceiling Batten System offers flexibility of configuration, aesthetic appeal and fast, simple installation. It is suitable for residential constructions featuring large areas of smooth plasterboard, where a quality flat finish is required.

USG Sheetrock Ceiling Battens are equally successful in new installations, interior retrofits and construction of exterior soffits.

Steel's Superiority

- Dimensionally stable
- Impervious to rot and fungal and insect attack
- Corrosion resistant
- Won't warp, twist or bow
- · Easily worked, few tools required
- Non-combustible

USG Interiors Pacific Ltd, are the leading manufacturers of commercial ceilings in New Zealand.

Over 40 years of experience is now available for residential applications with the USG Sheetrock Ceiling Batten System

Support New Zeal and made products





USG Sheetrock Ceiling Batten System

Components

NZ Building Code Compliance:

Clause B1 - Structure

The USG Sheetrock Ceiling Batten System, when installed in accordance with the requirements of this brochure will support the stated loads including uniformly distributed live load as per AS/NZS 1170.1, Table 3.1 A1, for non-habitable roof spaces in self contained dwellings.

Clause B2 - Durability

The USG Sheetrock Ceiling Batten System when installed and used in normal dry non corrosive interior conditions will have a minimum serviceable life of 50 years.

Clause G6 - Airborne and Impact Sound

Install in accordance with Winstone Wallboard's GBDFA 60b floor/ceiling system.

AS/NZS 2589: 2007

Gypsum linings - Application and finishing.

User friendly component design

- Rolled safety edge to Batten prevents handling injuries.
- Knurled Batten and Channel faces resist screw slip damage to sheetlinings and assists faster screw fixing.
- Low profile Batten (23mm) maximises available ceiling height, and provides greater adjustability tolerance.
- Direct fix brackets for purlin, truss or joists.
- Direct fix bracket allows fast, easy and accurate adjustment for a level ceiling.
- PC24 Perimeter Channel ideal for edge fixing to walls, bulkheads.
- Perimeter Channel back is pre-dimpled every 50mm for easier screw fixing.
- Components are USG identified to ensure system compatibility. Any substitution is likely to result in lower performance and is at the risk of the builder, designer or owner.



Installation

Sheetrock Ceiling Batten System

- Space Battens at centres to suit lining and level of finish to maximum of 600mm. Consult board manufacturers requirement.
- Join Battens by overlapping 200mm minimum and securing with four pop rivets or 8q-16 x 12mm minimum self drilling wafer head screw. (Detail 1).
- and securing with two pop rivets, screwing or crimping (Detail 2).
- Offset joints across ceiling. Centre of splice joint shall be no greater than 200mm from fixing at 900mm span, 250rnm at 1200mm span. Joints are not to be in end spans.

Perimeter Details



Linings

- Lining sheets are installed across the Battens.
- Butt joints centrally on Battens, stagger adjacent butt joints.
- Alternatively join Battens by slitting one end, interlocking 50mm Screw fix with appropriate self drilling bugle head screws at centres recommended by lining manufacturers.
 - Locate screws between 10mm and 16mm from sheet edges.
 - USG Sheetrock Batten System is used in a number of Winstone Wallboards applications for noise or fire control.



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USG Sheetrock Ceiling Batten System

Joist / Truss

Perimeter

Channel

PC24



23mm minimum

Perimeter

Channel

E

Lining

23mm minimum drop maximises headroom

FC37 Batten

25mm minimum gap between

bottom of joist and top of batten for acoustic isolation

Top Plates

Technical Information

Maximum Allowable Loads

Uniform Loads (kg/m²)

From the following tables select the required level of finish deflection and the span of the Sheetrock Ceiling Batten. The maximum allowable weight is determined by the Batten spacing.

Note: The lining material may dictate at what spacing the Battens should be installed. Consult the lining manufacturers requirements.

Deflection of L/600 - high finish level Level 5

Span of	Batten centres		
Batten	400 mm	450 mm	600 mm
900 mm	78kg/sq.m	69	52
1200 mm	31	27	20

Deflection of L/450 - default Level 4

Span of	Batten centres		
Batten	400 mm	450 mm	600 mm
900 mm	78kg/sq.m	78	70
1200 mm	44	39	29

Important Notes:

Shaded areas of tables indicate the ceiling lining weight, plus 0.5kPa

(50 kg/sq.m) live load to comply with uniformly distributed loads in non-habitable roof spaces of self-contained dwellings. (NZS 1170.1 Table 3.1 A1) These spans will not support the 1.4 kN point load of the above category. Where roof spaces are accessible, walking planks shall be provided between roof trusses, ensuring no load can be transferred to the Battens.

Approximate Product Amounts per m²

	Batten Centres @	400	450	600
Batten (linear metres)		2.5	2.22	1.66
Direct Fix Brackets	span @ 900	2.77	2.47	1.85
	span @ 1200	2.08	1.85	1.39
Perimeter Channel		as pe	rimeter of	room

Point Load (kg)

Ceiling mounted fixtures leg: light fittings) can be supported by the Sheetrock Ceiling Batten System as follows:

Span of Batten @	Max weight
900 mm	15 kg
1200 min'	7 kg*

Important Notes:

For surface attached fittings, provide additional Battens for support. For penetrating fittings eg down lights, the weight shall be no greater than 4kg.

This excludes dynamic loads leg ceiling fans) where specific support design will be required by others. *For spans at 1200 mm centres, back to back Sheetrock Ceiling Battens and fasten with 8g-16 x 12mm self drilling wafer head screws at 150 mm centres.



Manufactured by: USG Interiors Pacific Ltd Auckland, New Zealand

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Installation

Shall not commence until the building is fully enclosed and dry. Mechanical and electrical work above the system should be completed before installation commences. Timber elements are to be 12 - 16% moisture content at time of lining. If used externally, design and construction must ensure that wind blown moisture and chlorides do not have free entry into roof space. Any sources of moisture (eg shower rooms, spa pools, kitchens, laundries, etc) shall not allow moist air into the roof space, but shall duct to the exterior.

ISO 9000 Quality Assurance

USG Interiors Pacific Ltd is an accredited ISO 9001:2008 manufacturer - Licence No: 5044 by QAS.

Health and Safety

The material composition represents no health hazard. When handling, take care and ensure that safe work practices are adhered to at all times.

Some products may have surface treatments and sharp edges/ends. All reasonable care should be taken when handling or installing to avoid any potential injury to self or others. Users should be properly trained and supervised in the use and handling of these materials. Appropriate personal protective equipment should be used when necessary eg: gloves/glasses etc to avoid any potential injuries.

Handling & Storage

Store materials on a flat, dry surface and handle/store in a manner that will prevent distortion, scratches or damage of any kind by/to other trades.

Limitations

• Standard finish **not** for use in corrosive environments i.e. in contact with tanalised timber, chemically treated insulation products or copper piping. For additional protection consult your nearest USG representative.

• If Battens are used under roof applications thermal insulation must fully cover them to avoid thermal bridging and potential associated condensation/staining of the ceiling lining along the line of the Battens.

• For fire rated construction, consult USG or Winstone Wallboards Ltd.

Notes

• In accordance with USG's policy of continuous product improvement, we reserve the right to alter specifications without prior notice as technology or standards are introduced.

• All sizes and weights are nominal.

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