

Ecoplus Systems FasTLock Suspended Ceiling Grid

Product Technical Statement: 103704

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Ceiling grid system with seismic expansion clips which safely drift during an earthquake or tremor

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Level of assurance needed to demonstrate NZ Building Code Compliance

Supporting documentation should include self-assessment and technical information by manufacturer



Ecoplus Systems confirms that this minimum level of assurance has been met or exceeded by the following:

BEAL building element assessment laboratory

[ECOPLUS Two-way Exposed Suspended Ceiling Grid Sys - 1007](#)



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Technical Statement

Product Description

FasTLock™ Suspended Ceiling Grid is an innovative range of ceiling grid components engineered to provide a stronger more durable suspended ceiling system.

Integrated connection flukes on main runner and cross tee components provide a high level of connection strength and shear load capability creating a stronger more durable grid system, particularly when subjected to abnormal stress or loading.

Tested and appraised to New Zealand and Australian building standards including including AS / NZS 1170.5 Seismic compliance, FasTLock™ will provide your building project with a high quality, versatile and performance tested suspended ceiling system.

Scope of use

FasTLock Suspended Ceiling Grid System is a suspended exposed (two way) grid ceiling system. It is designed to be used as a suspended ceiling system in both commercial & residential type buildings within the following scope:

- Concrete structure/floors, timber framing, and steel framing designed and constructed to comply with the NZBC
- Designed and installed in accordance with AS/NZS 2785:2000
- FasTLock is a non trafficable ceiling.

The seismic option includes expansion clips which enable grid to safely drift with building during a tremor or quake.

New Zealand Building Code (NZBC)

The product will, if employed in accordance with the supplier's installation and maintenance requirements, assist with meeting the following provisions of the building code:

- **Clause B1 Structure:** Performance B1.3.1, B1.3.2, B1.3.3(a), B1.3.3(f), B1.3.3(h), B1.3.3(j), B1.3.3(q), B1.3.4
- **Clause B2 Durability:** Performance B2.3.1(b), B2.3.1(c), B2.3.2
- **Clause F2 Hazardous building materials:** Performance F2.3.1

Notes

B2.3.1(b) - 15 years when installed in a dry, non corrosive, interior installation

Evidence

The product meets the requirements set out in the following documents, or relevant parts of cited standards within the documents:

- AS/NZS 2785:2000 Suspended Ceilings - Design and Installation
- NZS 4219 Seismic performance of engineering systems in buildings
- NZS 1170.5 Structural design actions - Earthquake actions - New Zealand

Supporting Evidence

The product has and can make available the following additional evidence to support the above statements:



BEAL building element assessment laboratory

[ECOPLUS Two-way Exposed Suspended Ceiling Grid Sys - 1007](#)

Company Contact Details



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Product Criteria

Design requirements

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FasTLock is designed to be used in any commercial interior building application where a standard suspended ceiling grid is desired.

FasTLock is designed to accommodate a wide variety of Ecoplus ceiling tile solutions including mineral and glass fibre, wood and plasterboard.

FasTLock is available in two standard widths:

- 24mm for general applications
- 15mm a minimalist option providing a less dominant appearance

FasTLock is stocked in white as standard. Black is available on an indent basis. Custom colours are also available subject to minimum production runs

For installation instructions refer to the FasTLock product manual.

Installation requirements

Work shall comply with the installation requirements of AN/NZS 2785:2000 by appropriately qualified trade contractors.

Internal ceiling installation shall not proceed until the building is effectively weather-tight and the work of wet trades has been completed and dried.

Suspended ceilings shall only be installed upon the completion of construction above the ceiling.

The ceiling system shall not be suspended from, and shall be kept clear of, any building services such as ducts, unless specifically designed otherwise. Additional loads are not to be placed upon or carried by the suspension system.

Mechanical and electrical ductwork above the suspension system shall be completed before installation.

Refer to the installation instructions shown in the FasTLock product manual and / or the BEAL product appraisal

Maintenance requirements

FasTLock suspended Ceiling Grid System must be protected from internal and external moisture in accordance with NZBC E2 and E3.

FasTLock must be used in dry, non corrosive internal situations, and must not be used where it is likely to be exposed to water or where extended exposure above 95% RH is expected.

Where repainting of the grid system is required consult ECOPLUS Systems Ltd.

Company Product Information

Environmental

As a member of NZGBC, Ecoplus Systems is committed to providing products that help architects, construction companies and other stakeholders create buildings that efficiently meet the health and well being of occupants while also protecting the surrounding environment.

FasTLock is modular, can be disassembled, relocated and reused

FasTLock components can be fully recycled at the end of life

FasTLock packaging is recyclable

Quality Assurance



ISO 9001 (Quality Management)

Relationships



Member of New Zealand Green Building Council



BEAL; building element assessment laboratory IN1007



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