

OrbiPlate™

Bolted Connections

Product Identifier ORB2020BGH

Product description

The patented OrbiPlate™ system delivers connection tolerances of up to 20mm in structural connections. OrbiPlate™ is quick and easy to install delivering fine locational accuracy when positioning steel members.

Relevant building code clauses

B1 Structure — B1.3.1, B1.3.2, B1.3.3 (b, d, e, f, g, h, j, q), B1.3.4

B2 Durability — B2.3.1 (a)

Contributions to compliance

For B1 Structure refer to the OrbiPlate™ Design Guide ANZ and the OrbiPlate TDS/FTA listed in supporting documentation.

For B2 Durability all OrbiPlate™ components are Hot Dip Galvanised in accordance with AS/NZS 4680:2006.

Scope of use

The patented OrbiPlate™ system delivers connection tolerances of up to 20mm in structural connections.

OrbiPlate™ is quick and easy to install delivering fine locational accuracy when positioning steel members.

Conditions of use

OrbiPlate™ should only be installed by a skilled professional after consultation with the specifier. OrbiPlate™ requires installation in accordance with the OrbiPlate™ Design Guide ANZ. OrbiPlate™ models should only be installed in conjunction with the specific corresponding ferrule, laid out in the OrbiPlate™ Design Guide ANZ.

Supporting documentation The following additional documentation supports the above statements:

Title (type)	Version	URL
OrbiPlate™ TDS (Design, Installation, Test results)	FTA- 22/0006	https://cdn.ramset.com.au/wp-content/uploads/2023/07/ramset_ORB-2016BGH_ORB2020BGH_TDS_OrbiPlate%E2%84%A2-1.pdf
OrbiPlate™ Design Guide ANZ (Design, Installation, Maintenance)	July 2023	https://cdn.ramset.com.au/wp-content/uploads/2023/07/ramset-ORB2020BGH-DesignGuide-ANZ-OrbiPlate-2.pdf

Contact details	
Manufacture location	Overseas
Legal and trading name of manufacturer	ITW CP SEA*
Legal and trading name of importer	Ramset™ New Zealand
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Importer NZBN	9429039833129

*on the basis that ITW CP SEA partakes in the process of manufacture, involving design, quality/safety testing, importing, packaging and supplying the product in New Zealand.

Warnings and bans
This product line is not subject to any warning or ban under Section 26 of the Building Act 2004

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Appendix - Building code performance clauses

All relevant building code performance clauses listed in this document:

B1 Structure

B1.31

Buildings, building elements and sitework shall have a low probability of rupturing, becoming unstable, losing equilibrium, or collapsing during construction or alteration and throughout their lives.

B1.32

Buildings, building elements and sitework shall have a low probability of causing loss of amenity through undue deformation, vibratory response, degradation, or other physical characteristics throughout their lives, or during construction or alteration when the building is in use.

B1.33

Account shall be taken of all physical conditions likely to affect the stability of buildings, building elements and sitework, including:

(b) imposed gravity loads arising from use

(d) earth pressure

(e) water and other liquids

(f) earthquake

(g) snow

(h) wind

(j) impact

(q) time dependent effects including creep and shrinkage

B1.34

Due allowances shall be made for:

a. the consequences of failure,

b. the intended use of the building,

c. effects of uncertainties resulting from construction activities, or the sequence in which construction activities occur,

d. variation in the properties of materials and the characteristics of the site, and

e. accuracy limitations inherent in the methods used to predict the stability of buildings

B2 Durability

B2.31

Building elements must, with only normal maintenance, continue to satisfy the performance requirements of this code for the lesser of the specified intended life of the building, if stated, or:

(a) the life of the building, being not less than 50 years, if:

i. those building elements (including floors, walls, and fixings) provide structural stability to the building, or

ii. those building elements are difficult to access or replace, or

iii. failure of those building elements to comply with the building code would go undetected during both normal use and maintenance of the building

For further information, please contact Ramset™

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