

Class 1

Building Product Information Sheet

About this form

This template has been developed to help manufacturers and importers into Aotearoa New Zealand provide the information required by the **Building (Building Product Information Requirements) Regulations 2022**.

How to use

- › Download and save this form in your computer.
- › Fill out the form with the relevant information about your product.
- › You may use this filled out form and publish it on your product web page.

Types of building products

There are two classes of designated building products with different information requirements for each. The below summarises the information that must be provided for each class of product and when the information must be made available.

Class 1: Batch or mass-produced products

Batch or mass-produced products that are typically available for retail or wholesale purchase. For example, cladding products, mechanical fixings, insulation products, internal lining, roofing products, structural wood-based products, structural steel and reinforcing products, sanitary plumbing, and drainage products, including tapware (note: this is not an exhaustive list).

Class 2: Custom-made lines of products

Custom-made lines of products that are made to order to client specifications. For example, external window joinery and doors that have been customised to the specifications of individual clients (for example, specifications on dimensions and glass type).

MBIE provides resources to support manufacturers, importers, wholesalers, distributors, and retailers to understand what their obligations are, and how to meet them.

For more information, visit [Building product information requirements | Building Performance](#)

Background

The Building Amendment Act 2021 introduced new minimum information requirements for building products to support better informed decision-making by building consent authorities, building owners, builders, and designers. The new regulations designate several building products for which building product information must be provided and establish the minimum requirements for that information.

The new regulations will ensure better and more consistent information is available for these products, helping inform building consent authority decisions on building consent applications. This should result in fewer requests for information, and therefore faster processing times. In addition, the requirements will ensure people, including homeowners, are given the information they need to make good decisions about products, and use and maintain them as intended.

Please note that The Ministry of Business, Innovation and Employment (MBIE) is not responsible for the input details provided in the template.

Class 1

Building Product Information Sheet

Product name (include the brand name):

SCREW FAST Self Drilling Screw Wafer/Hex Metal 10 Gauge

Product description and its intended use (measurements, materials, usage):

Self Drilling for Metal Wafer Head 10 gauge 16 TPI No 2 Phillips Drive
Self Drilling for Metal Hex Head 10 gauge 16TPI 5/16 Hex Drive

Lengths 16mm to 50mm

Material. C1022 Hardened Steel as per AS3566:1

Finish.

Class 3 as per AS3566:2

Class 5 XIOD as per Kwik Coat Australia/Taiwan

Deks Seal Washer. www.deks.com

For fixing metal to metal

Product identifier (if applicable):

WMS and HMS

(This could be a Global Trade Item Number (GTIN) or quick response code (QR code), or any other distinguishable part/model number or identifier.)

Place of manufacture: Aotearoa New Zealand Overseas

Legal and trading name of the manufacturer(s):

M & W Fasteners

Address for service:

STREET NAME Ersheng 2nd Road

SUBURB Qianzhen Dist

CITY, COUNTRY Kaohsiung City Taiwan

POSTCODE

Website:

www.mnw.com.tw

Email address:

sales@mnw.com.tw

Phone no. (if applicable):

886-7-3335463

NZBN (if applicable):

Legal and trading name of the importer (if applicable):

Nuts and Bolts and Screws Ltd - NBS LTD

Address for service:

STREET NAME 193 Waterloo Road SUBURB Hornby

CITY, COUNTRY Christchurch NZ POSTCODE 8042

Website: www.nutsandboltsandscrews.co.nz

Email address: sales@nutsandboltsandscrews.co.nz

Phone no. (if applicable): 03 344 6090

NZBN (if applicable): 1744284

Relevant Building Code clauses:

NZBC Clause B2 Durability
 B2 1.0 Durability
 B2 2.0 Maintenance
 B2 Steel Figure 1 and Table 1
 NZBC Clause E2 External Moisture
 E2 4.4, 8.1.4, 8.4, 8.4.8, 8.4.9, 9.0, 9.1.2, 9.6, 9.6.4, 9.6.6,
 E2 Figure 39
 E2 Table 20

Statement on how the building product is expected to contribute to compliance:

B2 and E2: All NBS Ltd screws are manufactured and extensively tested to ensure strict conformance with Australian Standard AS/NZS 3566 as per the New Zealand Building Code NZS 3604 : 2011.

Mechanical Properties : Metal Screws

Self Drilling Screws For Metal As Per AS 3566.1 2002

Mechanical Properties

Size and TPI	AXIAL TENSILE KN	SINGLE SHEAR	TORSIONAL Nm
10 – 16	9.5	6.5	9.3
12 – 14	16.0	9.0	13.2
14 - 10	21.7	12.0	23.5

All loads are mean characteristic loads. All values are obtained under laboratory conditions and appropriate safety factors must be applied for design purposes.

NZBC Clause B2 requires durability of not less than 15 years.

- options for compliance set out in section 19 of the Act (regulations, acceptable solution, verification method)
- standard or technical document that describes the performance of the building product or the relevant specifications to which the building product was manufactured
- physical properties of the building product
- how the building product is intended to be used.

Limitations on the use of the building product:

For drilling steel up to 4.5mm maximum

E2 External Moisture

8.4.8 Fixings: corrugated and trapezoidal Fixings shall be as shown in Tables 11, 12, 14 and 15, and shall be a minimum 12-gauge screw, as shown in Figure 39, which complies with Class 4 of AS 3566: Part 2

8.4.8.1 Fixing requirements Fixings shall: a) Be fixed through crests, b) Penetrate purlins by a minimum of 40 mm for nail fixings and 30 mm for screw fixings, c) Include sealing washers of: i) neoprene (having a carbon black content of 15% or less by weight), ii) profiled washer and EPDM washer where required to allow for expansion of the profiled metal roof cladding

8.4.9 Fixings: trough profile Clip fixings for trough profiles and spans as shown in Table 13 shall be as shown in Figure 40, and shall: a) Have a minimum BMT of 0.9 mm b) Be a minimum width of 30 mm c) Be made from a material compatible with the cladding, refer to Tables 20 and 21 d) Have clips fastened with a minimum of two 10-gauge by 30 mm waferhead hot-dipped galvanised screws which comply with Class 3 of AS 3566: Part 2.

Design requirements that would support the appropriate use of the building product:

Mechanical Properties : Metal Screws

Self Drilling Screws For Metal As Per AS 3566.1 2002

Axial Withdrawal Force As Per AS 3566.1 2002

Size and TPI	KN
10 – 16	3.4
12 – 14	3.7
14 – 10	4.7

MATERIAL SPECIFICATION FOR ABOVE

Zinc Coated Steel Type G450 – Z350 in accordance with AS 1397

Material Thickness 1.5 mm base metal thickness

To be installed by a qualified Trades Person.

Installation requirements *(also provide link to the product installation guide):*

Use a cordless screw driver set between 2200 and 3000 RPM

Fit a Phillips No2 drive bit into the head of the screws or a 1/4 hex socket for a hex head screw.

Place at the fastening position

Apply a consistent firm pressure to the screw driver while the screw is drilling.

Do not over-tighten the screw.

Impact drivers are not recommended

Maintenance requirements (also provide link to the product maintenance guide):

From E2 Table 20 Material Selection

Note: 1) Refer to manufacturer's information for maintenance requirements in Exposed and Sheltered locations. 2) The term "hidden" means concealed behind another element such that no part is visible. Hidden elements require a 50 year durability under the NZBC. The term "exposed" means having surfaces exposed to rain washing. The term 'sheltered' means being visible, but not rain washed. For diagrammatic outline, refer NZS 3604 Figure 4.3(a). Exposed and sheltered elements require a 15 year durability. Where an element can be categorised as both 'sheltered' and 'exposed', the 'sheltered' condition will apply. 3) AS/NZS 2728 lists atmospheric classes derived from ISO 9223 for Australia and New Zealand, determined by exposure to wind-driven sea-spray. NZS 3604 references atmospheric classes B (Low), C (Medium) and D (High). E2/AS1 references atmospheric zones B,C,D,E. For the purposes of cladding selection, Zone E (Severe marine classified as breaking surf beach fronts) has been included. Designers must consult metal supplier's information for specific durability requirements of sites in Zone E. 4) The geographic limits of atmospheric classes in NZS 3604 and AS/NZS 2728 may vary. Table 20 uses the limits outlined in NZS 3604. 5) Includes fixings protected by putty and an exterior paint system of primer, undercoat and two top coats of paint. 6) Microclimates based on evidence from adjacent structures of corrosion caused by industrial or geothermal atmospheres are outside the scope of this Acceptable Solution. 7) Refer to Tables 21 and 22 for compatibility of fixings with metal claddings. 8) Roof only. Coated steel wall claddings must be considered as 'sheltered'. 9) Hidden steel coated elements in ventilated cavities in zones D and E (exposure to salt air) must be considered as 'sheltered' 10) The use of stainless steel fixings is not recommended by steel manufacturers for use with coated steel in severe marine and industrial environments, as they are considered to cause deterioration.

Screws that do not receive regular rain washing (unwashed areas) require manual washing as per B2/AS1.

Very Severe Marine ISO 9223 Category 5 and Severe Marine ISO 9223 Category 4 will require sponge washing down every 3

Is the building product/building product line subject to warning or ban under section 26 of the Building Act 2004?:

Yes No

If yes, description of the warning or ban under section 26:

Version:

1

Date:

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