



SD Aluminium

Drywall & Interior Screw Range

Designated Building Product - Class 1
BPIR Declaration - V1. 08.2025

Declaration

SD Aluminium Limited has prepared this declaration to meet the requirements of Schedule 1(d) of the Building (Building Product Information Requirements) Regulations 2022.

This declaration applies to the [Drywall & Interior Fit-out Screws Range](#) as a designated building product, Class 1.

It confirms that the information provided is based on our technical documentation, manufacturing processes, and supporting evidence, and is, to the best of our knowledge, accurate and complete at the time of publication.

Product / System

Name - **SD Aluminium Drywall & Interior Fit-out Screws Range**
Identifier - Bugle Head Drywall Screws(Coarse & Fine Thread), Truss Head Self Drilling Screws
Line -

Description

The SD Aluminium Drywall & Interior Fit-Out Screws range is designed for securing plasterboard and other lining materials to timber or light-gauge steel framing. This group includes bugle head drywall screws (coarse and fine thread) and truss head self-drilling screws, available in multiple drive options. Tip types include self-drilling tips for direct fastening into steel studs and self-tapping/coarse thread tips for fastening into timber studs. The bugle head profile ensures the screw sits flush without tearing the paper surface, while truss head screws provide a wide bearing surface for lightweight metal fastening.

Available in a range of materials and finishes to suit various installation conditions:

- *Phosphate-coated steel – Optimised for use under plasterboard stopping compounds.*
- *Zinc plated steel – General interior use where corrosion protection is required.*

Size Range

- **Bugle Head Drywall Screws (Coarse Thread)** - Dia: M3.5-M4.2, Length: 25mm - 50mm,
- **Bugle Head Drywall Screws (Fine Thread)** - Dia: M3.5, Length: 25mm - 45mm,
- **Truss Head Self Drilling Screws** - Dia: M4-M4.8, Length: 16mm - 220mm,



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Scope Of Use

The Drywall & Interior Fit-Out Screws range is suitable for non-structural interior applications where a smooth, concealed finish is required. Common applications include:

- *Plasterboard installation – Bugle head screws for fixing sheets to timber or steel studs.*
- *Interior wall and ceiling linings – Suitable for securing fibre cement board or similar lining products.*
- *Light metal framing – Truss head self-drilling screws for fixing thin-gauge steel sections in fit-out projects.*
- *Partition walls and ceiling grids – Screws designed for flush finishing under joint compound or paint.*

Tip selection should match the substrate and application:

- *Coarse thread / self-tapping tip → For timber stud framing.*
- *Fine thread / self-drilling tip → For fixing to light-gauge steel studs.*
- *Truss head with self-drilling tip → For secure fastening of thin sheet steel or ceiling grid components.*

Installations, Conditions of Use, and Limitations

- All fasteners must be installed into structurally sound timber, steel, or other suitable substrates capable of withstanding the design loads for the intended application.
- For coach screws, drill pilot holes to the manufacturer's recommended diameter to prevent timber splitting and ensure correct thread engagement.
- For bolts, through bolts, and threaded rods, use correctly sized washers and nuts to distribute load evenly and prevent embedment.
- Tighten using suitable tools (wrench, socket, or spanner) and apply torque according to specifications to avoid over-tightening or thread damage.
- Select material grade and coating to match environmental exposure zone and required service life.
- Avoid direct contact with incompatible metals that may cause galvanic corrosion; if unavoidable, use barriers such as nylon washers, sealants, or protective coatings.
- Over-torquing may strip threads, damage substrates, or reduce holding capacity.
- Standard galvanised products are not recommended for severe marine or highly corrosive environments without additional protection.
- Any cutting of galvanised or stainless bolts/rods must be followed by application of corrosion protection to the exposed ends.



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Relevant Building Code Clauses

B1	Structure	<i>B1.3.1, B1.3.2, B1.3.3(c, f, h, j, m), B1.3.4</i>
B2	Durability	<i>B2.3.1(a), B2.3.2(a, b)</i>
F2	Hazardous Building Material	<i>F2.3.1, F2.3.3</i>

Contributions To Compliance

The SD Aluminium Fastener range contributes to compliance with the following New Zealand Building Code (NZBC) clauses, when installed in accordance with manufacturer instructions and good trade practice:

- *B1 Structure – Provides secure mechanical fixing between timber, steel, masonry, and composite materials. Correct fastener selection and installation ensures the building elements remain stable under expected loads including wind and seismic actions.*
- *B2 Durability – Fasteners are manufactured from galvanised steel, stainless steel, or zinc-coated steel, with optional specialty coatings. When appropriately selected for the environment (interior, exterior, or coastal), the fasteners will remain durable for the minimum 50-year (structural) or 15-year (non-structural) building life as required by the NZBC.*
- *F2 Hazardous Building Materials – Fasteners are made from materials that do not present a health hazard when used as intended.*

Further technical information to support compliance is available from SD Aluminium upon request.

Maintenance Requirements

- To ensure long-term performance and compliance with the intended use, all fasteners should be:
- Inspected periodically – at least once every 12 months for interior applications and every 6 months for exterior, coastal, or industrial environments. Look for signs of corrosion, loosening, wear, or mechanical damage.
- Cleaned regularly – remove dirt, salt deposits, and other contaminants with fresh water and a soft brush. In marine or industrial areas, rinse every 1–3 months to reduce corrosion risk. Avoid harsh abrasives or acidic cleaners.
- Retightened when necessary – check and tighten fixings to the correct torque, ensuring threads are not stripped and substrates are not damaged.
- Protected from dissimilar metals – avoid direct contact with incompatible metals that may cause galvanic corrosion. Where unavoidable, use a suitable barrier such as nylon washers, sealants, or protective coatings.
- Repaired or replaced immediately – if the fastener shows significant corrosion, distortion, head damage, or thread wear, it must be replaced with an equivalent or higher-grade product.
- Maintained after building work – following construction or renovation, clean off all swarf, concrete splatter, and debris to prevent localised corrosion.
- Protected from aggressive environments – for installations near swimming pools, fertiliser storage, or chemical plants, additional cleaning and protective coatings may be required.
- Documented – for critical structural applications, keep a maintenance record including inspection dates, actions taken, and replacement details.



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Company Information

Legal name of the manufacturer: SD Aluminium Ltd

Manufacture location: New Zealand

Manufacture address for service: 6 John Glenn Avenue, Rosedale, Auckland 0632

Manufacturer NZBN: 9429047563094

Manufacture website: www.sdaluminum.co.nz/



Branch Locations & Contact Details

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