



SD Aluminium Special Outdoor & Landscaping Screws

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 [Special Outdoor & Landscaping 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 Special Outdoor & Landscaping Screws Range**
Identifier - Bugle Head Batten Screws, Washer Head Landscaping Screws, Wing Tek Screws
Line -

Description

The SD Aluminium Special Outdoor & Landscaping Screws range is engineered for heavy-duty exterior timber construction, landscaping projects, and structural outdoor framing. This group includes bugle head batten screws, washer head landscaping screws, and wing tek screws, available in drive types such as Int Hex, Square, and Philips. Tip types include self-drilling tips for fastening into steel, self-tapping and T17 tips for timber, and wing tek tips for timber-to-steel applications, which enlarge the timber hole before engaging the steel substrate. Head styles are designed to maximise load distribution, prevent timber splitting, and ensure long-term holding strength in demanding environments.

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

- *Stainless Steel 304* – General exterior use in non-coastal areas.
- *Stainless Steel 316* – Harsh and coastal environments requiring maximum corrosion resistance.
- *Hot-Dip Galvanised Steel / Zinc Coated Steel* – General exterior and interior use; avoid prolonged exposure to salt spray.
- *Specialty Coatings* – Coloured or treated finishes for decorative, wear-resistant, or specific environmental applications.

Size Range

- **Bugle Head Batten Screws** - Dia: M4.6-M6.15, Length: 50mm - 200mm,
- **Wing Tek Screws** - Dia: M4.83-M6.15, Length: 35mm - 80mm,
- **Washer Head Landscaping Screws** - Dia: M3.5-M4.83, Length: 80mm - 280mm



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Scope Of Use

The Special Outdoor & Landscaping Screws range is intended for outdoor timber and mixed-material applications requiring strong, durable fixings. Common uses include:

- *Timber framing and structural landscaping – Bugle head batten screws for pergolas, gazebos, and heavy-duty timber joins.*
- *Retaining walls and large garden structures – Washer head landscaping screws for maximum bearing surface and secure clamping force.*
- *Timber-to-steel construction – Wing tek screws for fixing timber elements to steel posts, beams, or brackets.*
- *Outdoor furniture and fixtures – Applications where structural strength and weather resistance are essential.*

Tip selection should match the substrate and application:

- *Self-drilling tip → For steel or metal-to-metal fastening without pre-drilling.*
- *Self-tapping tip → Cuts its own threads in softer materials, but may need a pilot hole.*
- *Dog point tip → Helps with alignment and prevents overcutting threads.*
- *T17 tip → Designed for timber, reduces splitting.*
- *Wing tek tip → For fastening timber to steel, enlarges timber hole before engaging steel.*

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
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