



# SD Aluminium Countersunk Head 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 [Countersunk Head 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 Countersunk Head Screws Range**  
*Identifier* - CSK Head Self Drilling Screws, CSK Head Self Tapping Screws, CSK Head Dog Point Screws, CSK Head Window Frame Screws, CSK Head Chipboard Screws, Sentinel CSK Self Drilling Screws, CSK Head Blue Concrete Screws  
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## Description

The SD Aluminium Countersunk Head Screws range is designed for flush-finish fastening in timber, aluminium, composite boards, and light-gauge steel. This group includes self-drilling, self-tapping, dog point, window frame, chipboard, and concrete screws, available in multiple drive types such as Phillips, Square, and Torx. Tip types include self-drilling tips for direct fastening into steel, self-tapping tips for timber and composite materials, dog point tips for alignment and reduced splitting, and specialised masonry tips for concrete fastening. The countersunk head allows the screw to sit level with or below the surface, ensuring a neat, unobtrusive finish in visible applications.

Manufactured in a variety of materials and coatings to suit different environments:

- *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

- **CSK Head Self Drilling Screws** - Dia: M4-M5.5, Length: 11mm - 63mm,
- **CSK Head Self Tapping Screws** - Dia: M3.5-M8, Length: 16mm - 100mm
- **CSK Head Dog Point Screws** - Dia: M3.5, Length: 17mm - 25mm
- **Window Frame Screws** - Dia: M7.5, Length: 72mm - 212mm
- **Chipboard Screws** - Dia: M4.2- M4.83, Length: 20mm - 100mm
- **Sentinel CSK Head Screws** - Dia: M4, Length: 11mm - 14mm
- **CSK Head Blue Concrete Screws** - Dia: M4.8, Length: 80mm,



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### Scope Of Use

The Countersunk Head Screws range is suitable for flush-mount fastening where a clean, level finish is required. Common applications include:

- *Aluminium and timber joinery – CSK window frame screws and self-tapping screws for secure frame assembly and hardware fixing.*
- *Cabinetry, furniture, and interior fit-out – Chipboard screws and self-drilling screws for precise, flush fastening in timber and panel products.*
- *Cladding and façade systems – Countersunk fasteners for secure, discreet attachment to timber or steel framing.*
- *Masonry fixing – CSK concrete screws for anchoring into brick, block, or concrete where a flush finish is required.*

Tip selection should match the substrate and application:

- *Self-drilling tip – For fastening directly into steel or metal without pre-drilling.*
- *Self-tapping tip – Cuts its own thread in timber, composites, or plastics; may need a pilot hole in dense materials.*
- *Dog point tip – Assists alignment, reduces thread damage, and prevents splitting in timber.*
- *T17 tip – Timber-focused design with cutting ribs to minimise splitting and reduce drive torque.*
- *Wing tek tip – Enlarges the timber hole before engaging steel, preventing timber jacking when fastening wood to 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

<b>B1</b>	Structure	<i>B1.3.1, B1.3.2, B1.3.3(c, f, h, j, m), B1.3.4</i>
<b>B2</b>	Durability	<i>B2.3.1(a), B2.3.2(a, b)</i>
<b>F2</b>	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.sdalu.co.nz/](http://www.sdalu.co.nz/)



## Branch Locations & Contact Details

### Auckland Rosedale Branch

Address: 6 John Glenn Avenue, Rosedale, Auckland 0632  
Email: [info@sdalu.co.nz](mailto:info@sdalu.co.nz)  
Phone: 09 - 218 2188  
09 - 218 2111

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### Auckland Manukau Branch

Address: 28 Ryan Place, Manukau City, Auckland 2104  
Email: [info.manukau@sdalu.co.nz](mailto:info.manukau@sdalu.co.nz)  
Phone: 09 - 217 8666