



INCLUDING   
*Collated decking clip*

## TECHNICAL DATA SHEET

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Contents

Document layout .....3

Material composition.....4

Physical properties.....4

Mechanical properties.....5

Performance data of Chain Clips .....8

System performance (E330, Uplift, Holding Capacity, Pull-Through).....9

Screw Properties.....11

Corrosion.....12

Ancillary items.....12

Appendix A: Fastener drawings .....14

Appendix B: Coverage & Fastening frequency .....24

Appendix C: Board Compatibility of Chain Clips .....26

## Hulk fasteners – Deck fastener collection

HULK Fasteners, including the CHAIN collated clip system, are purposefully designed to make composite or timber decking installations more efficient, straightforward, and beautiful with their long-term durability, reliable grip, and range of colours to complement the look of your decking of choice.

|                                    |                                                                                                               |
|------------------------------------|---------------------------------------------------------------------------------------------------------------|
| <b>Hulk fasteners name:</b>        | Hulk Fasteners – Deck fasteners                                                                               |
| <b>Hulk fasteners application:</b> | Composite decking                                                                                             |
| <b>Material:</b>                   | See Material composition section                                                                              |
| <b>Material description:</b>       | Hulk fasteners offers different grades of fasteners, coatings and materials to match the decking application. |

## Document layout

Eva-Last strives to evaluate their Hulk fasteners in depth and present the technical and safety information available in a manner that assists with the application thereof. If additional data or information is required, please do not hesitate to contact us at [rad@eva-last.com](mailto:rad@eva-last.com).

In an attempt to simplify the information, similar data is loosely grouped into the categories summarised below. This document is ordered according to these categories and the applicable page number for the start of each section is captured in the Table of contents.

- Material composition
- Physical properties
- Mechanical properties
- System performance
- Corrosion properties
- Ancillary components

The Material compositions section captures a summary of the Hulk fasteners make-up from the Material Safety Data Sheet (MSDS). A link to the MSDS is provided for additional detail. Summaries of chemical compliance data available are also collected in this section.

The Physical properties section provides a summary of available profiles and general material properties such as density, water absorption, etc. Additional profile information can be obtained from drawings in the appropriate appendix. Where possible, material properties that can be assigned to more specific categories are moved to the relevant sections.

The Mechanical properties section captures data related to the Hulk fasteners' reaction to various load conditions. The section is broadly assembled into the below categories. Additional profile and sectional information are captured by the drawings in the appropriate appendix.

- Material specific mechanical properties
- Fastener performance
- Fastener Geometry

Where the Hulk fasteners form part of a system and, as a result, utilise other components, an additional section to capture useful data regarding these components is added to the document.

Where information is not yet available, the section is simply omitted. In the cases where information can be substituted or supplemented with alternative data (based on similar compositions, etc.), an attempt to do so is made. Where this is the case, it is highlighted. Please make use of the data accordingly. For any additional information regarding this, please feel free to contact [rad@eva-last.com](mailto:rad@eva-last.com).

Always ensure the Hulk fasteners, and application thereof is suitable, rational, and compliant with any applicable regulations or standards. Wherever necessary, consult a suitably qualified professional. For information about the installation and use of the Hulk fasteners, please see the applicable Installation Guide (IG). For additional material safety and handling information, please refer to the applicable MSDS. For any further information, please contact [rad@eva-last.com](mailto:rad@eva-last.com).

## Material composition

The following table is a simplified material composition for the Hulk fasteners material technology. For more information regarding the composition, safety, and handling of the material, please see the Hulk fasteners MSDS. Please also refer to the safety section and the Safe Working Procedure (SWP) in the IG for additional information related to the safe use of these Hulk fasteners.

| Application | Property             | Specification                             | Coating                          | Compliance                     |
|-------------|----------------------|-------------------------------------------|----------------------------------|--------------------------------|
| Metal       | Metal clip screw     | C1022 Steel<br>(GB/T 701-np2208)          | Magni 599                        | ASTM B117 – Salt Spray (1500h) |
|             | Metal deck screw     |                                           |                                  |                                |
|             | Metal trim screw     |                                           |                                  |                                |
| Timber      | Timber frame screw   | SS316L Stainless Steel<br>(Q/TTP001-2024) | Magni 599                        | ASTM B117 – Salt Spray (1500h) |
|             | Timber clip screw    |                                           |                                  |                                |
|             | Timber deck screw    |                                           |                                  |                                |
|             | Timber trim screw    |                                           |                                  |                                |
| Deck clips  | S9 and S6 deck clip  | SS430                                     | Epoxy                            |                                |
|             | Chain Collated Clips | SS304                                     | Polypropylene<br>(UV stabilised) |                                |

Notes:

- Magni 599 coating offers corrosion resistance up to **1 500 hours** of salt spray (ASTM B117).
- Chain Collated Clips are coated with **PP plastic**, enriched with UV stabilizers

## Physical properties

Typical properties of the Hulk fasteners material technology are captured below as an indication of the expected behaviour of the Hulk fasteners material.

| Fastener type                      | Size (mm)<br>("or #) | Length<br>(mm)(") | Material               | Note                                                                                                            |
|------------------------------------|----------------------|-------------------|------------------------|-----------------------------------------------------------------------------------------------------------------|
| Hidden deck fasteners              |                      |                   |                        |                                                                                                                 |
| Clip screw for timber substructure | M 4.2 (# 8)          | 40 (1.575)        | SS316                  | Used in both Chain Collated clips and S-Series clips.                                                           |
| Clip screw for metal substructure  | M 4.2 (# 8)          | 31 (1.221)        | C 1022                 | Used in both Chain Collated clips and S-Series clips and lifespan concealed brackets.                           |
| Chain Collated decking clip        | 6.0 (0.237)          | 19 (0.749)        | SS 304 +<br>PP coating | Compatible with boards that have a groove height of between 6 mm and 12 mm. To be used with hand tool.          |
| S6 decking clip                    | 6.0 (0.237)          | 38 (1.497)        | SS 430                 | Compatible with boards that have a 6 mm groove height.                                                          |
| S9 decking clip                    | 9.0 (0.335)          | 38 (1.497)        | SS 430                 | Compatible with boards that have a 9 mm groove height.                                                          |
| Top fixing screws                  |                      |                   |                        |                                                                                                                 |
| Top fixing deck screw for timber   | M 5.0 (# 10)         | 63 (2.481)        | SS 316                 | For 20 to 25 mm thick boards into timber structures greater than 40 mm thick. Two corrosion resistance options. |
| Top fixing deck screw for metal    | M 5.0 (# 10)         | 45 (1.772)        | C 1022                 | For 20 to 25 mm thick boards into metal structures 0.8 to 2.0 mm thick.                                         |
| Trim screws                        |                      |                   |                        |                                                                                                                 |
| Top fixing trim screw for timber   | M 5.5 (# 10)         | 48 (1.890)        | SS 316                 | For 11 to 16 mm thick boards into timber structures greater than 40 mm thick.                                   |
| Top fixing trim screw for metal    | M 5.5 (# 10)         | 35 (1.378)        | C1022                  | For 11 to 18 mm thick boards into metal structures 0.8 to 2.0 mm thick.                                         |

Appropriate fasteners must be employed relative to applicable legislation, the intended application, and the conditions present. Particular attention should be paid to the corrosion conditions of the site and the state of the substrate available. Applications should adhere to any applicable standards. All timber profiles should be treated appropriately, and all metal profiles should be coated appropriately. Movement of materials within the system can degrade connections over time, and it is prudent that this is avoided or reduced to an acceptable limit where possible. Coatings can degrade over time and regular, proactive maintenance should be employed.

## Mechanical properties

This section provides an overview of the key mechanical properties of fasteners made. These values help in assessing the performance and suitability of each material for various applications. Data has been sourced from material certificates and online resources, marked with a star (\*) where applicable.

### Material Properties of Fastener Materials

| Property               | Stainless Steel 316L | Stainless Steel 304 | Stainless Steel 430 | Carbon Steel C1022 | Source                          |
|------------------------|----------------------|---------------------|---------------------|--------------------|---------------------------------|
| Tensile Strength (MPa) | 614                  | 515 – 725*          | 450 – 600*          | 560                | Material Certificate / AZoM*    |
| Yield Strength (MPa)   | 613                  | 205 – 310*          | 275*                | 350                | Material Certificate / AZoM*    |
| Elongation (%)         | 54                   | 40 – 60*            | 22*                 | 20                 | Material Certificate / AZoM*    |
| Magnetism              | Non-magnetic         | Non- magnetic*      | Magnetic            | Magnetic           | Material Certificate / General* |

### Timber Clip Screw (M4.2 x 42 mm)

This section presents the performance data for the Timber Clip Screw (M4.2 x 42 mm). These screws are designed specifically for timber applications, featuring Type 17 tips for improved penetration. The values are derived from mechanical tests conducted per industry standards, with both metric and imperial units are provided for clarity.



| Property        | Sub-Property             | Value (Metric) | Value (Imperial) | Notes                                                  |
|-----------------|--------------------------|----------------|------------------|--------------------------------------------------------|
| Breaking Torque | -                        | -              | -                | No torque settings due to unhardened material          |
| Withdrawal      | ACQ Timber (SG 0.67)     | 3.89 kN        | 874 lbf          | Type 17 tip. Drilling Depth: 32 mm. Report: 2021262270 |
|                 | Red Oak Timber (SG 0.72) | 4.50 kN        | 1012 lbf         | Type 17 tip. Drilling Depth: 32 mm. Report: 2021262270 |
| Shear Strength  | -                        | -              | -                | No shear data available                                |

### Metal Clip Screw (M4.2 x 31 mm)

This section covers the Metal Clip Screw (M4.2 x 31 mm), highlighting its breaking torque, withdrawal strength, and shear strength when used in metal applications. These screws are equipped with self-drilling tips, making them ideal for metal substrates. The data is sourced from controlled tests to assess the screw’s reliability under load, presented in both metric and imperial units.

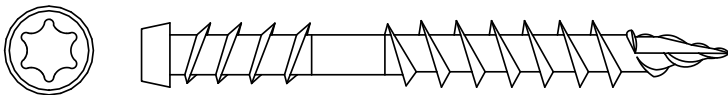


| Property        | Sub-Property       | Value (Metric)  | Value (Imperial)   | Notes                               |
|-----------------|--------------------|-----------------|--------------------|-------------------------------------|
| Breaking Torque | Recommended torque | 5.30 N·m        | 46.9 in·lbf        | 2.0 mm (18 Guage steel)             |
|                 | Actual torque      | 6.08 – 6.28 N·m | 53.8 – 55.6 in·lbf | Requirement: 4.81 N.m (42.6 in.lbf) |

|                |                            |         |         |                                                                              |
|----------------|----------------------------|---------|---------|------------------------------------------------------------------------------|
| Withdrawal     | 2.0 mm Steel Plate (HV146) | 3.85 kN | 866 lbf | Self-drilling tip. Drilling Depth: 17 mm                                     |
|                | 1.6 mm Galvanised Steel    | 4.3 kN  | 967 lbf | Based on internal test results                                               |
|                | 1.6 mm Aluminium           | 1.8 kN  | 405 lbf | Based on internal test results                                               |
|                | Southern Yellow Pine       | 1.7 kN  | 382 lbf | Density: 670 kg/m <sup>3</sup> . Tests by CCT                                |
|                | Apex™ Composite Joist      | 1.4 kN  | 315 lbf | Density: 750 kg/m <sup>3</sup> . Profile STPVB104. Tests by external lab CCT |
|                | Eva-tech™ Composite Joist  | 0.8 kN  | 180 lbf | Density: 1300 kg/m <sup>3</sup> . Profile ST08X. Tests by external lab CCT   |
|                | Lifespan Beam              | 0.7 kN  | 157 lbf | Profile STLS09. Tests by external lab CCT. See Lifespan TDS                  |
| Shear Strength | Steel Plate (2.0 mm)       | 6.35 kN | 674 lbf | Self-drilling tip. Internal test results                                     |

Timber Deck Screw (M5.0 x 63 mm)

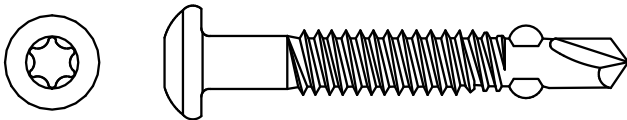
For fastening 20-25 mm thick deck boards onto timber frames without having to pre-drill. Unless specified by decking manufacturer. Suitable for softwood and most hardwoods frames. Pre-drilling may be required for dense hardwood frames. Not suitable for stair tread board without pre-drilling. Fasten 30 mm from any board edge unless otherwise specified by manufacturer.



| Property        | Sub-Property             | Value (Metric) | Value (Imperial) | Notes                                                                |
|-----------------|--------------------------|----------------|------------------|----------------------------------------------------------------------|
| Breaking Torque | -                        | -              | -                | No torque settings due to unhardened material                        |
| Withdrawal      | ACQ Timber (SG 0.67)     | 5.65 kN        | 1270 lbf         | Type 17 tip. Drilling Depth: 40 mm. Report: Internal testing results |
|                 | Red Oak Timber (SG 0.72) | 6.89 kN        | 1549 lbf         | Type 17 tip. Drilling Depth: 40 mm. Report: Internal testing results |
| Shear Strength  | -                        | -              | -                | No shear data available                                              |

Metal Deck Screw (M4.8 x 45 mm)

For fastening 20 to 25 mm thick deck boards onto metal frames without having to pre-drill, unless otherwise specified by decking manufacturer. Suitable for metal structures of thicknesses between 1.2 and 2.0 mm, thereafter it is advisable to pre-drill. Detachable reamer wing is only operational in steel greater than of 1.2 mm thick. To ensure an adequate bond between the board and frame, check that the wings have detached. Fasten 30 mm from any board edge unless otherwise specified by manufacturer.

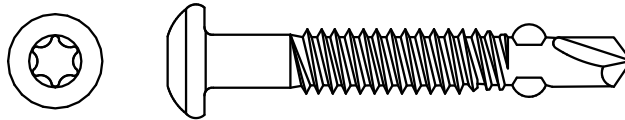


| Property        | Sub-Property               | Value (Metric)    | Value (Imperial)    | Notes                                                                      |
|-----------------|----------------------------|-------------------|---------------------|----------------------------------------------------------------------------|
| Breaking Torque | Drawing Standard           | 6.97 N·m          | 61.7 in-lbf         | Self-drilling tip. Drill point for metal                                   |
|                 | Actual Value               | 10.69 - 11.37 N·m | 94.6 - 100.6 in-lbf | Recommended: 9.84 N·m (87.1 in-lbf)                                        |
| Withdrawal      | 2.0 mm Steel Plate (HV146) | 3.38 kN           | 760 lbf             | Self-drilling tip. Drilling Depth: 23 mm. Report: Internal testing results |
| Shear Strength  | Steel Plate (2.0 mm)       | 4.2 kN            | 944 lbf             | Self-drilling tip. Internal test results                                   |

### Metal Trim Screw (M5.5 x 35 mm)

Designed to fasten 10 to 18 mm thick fascia board to metal frames without having to pre-drill, unless otherwise specified by decking manufacturer. Suitable for metal structures of thicknesses from 1.2 to 2.0 mm, thereafter it is advisable to pre-drill. Detachable reamer wing is only operational in steel greater than 1.2 mm thick.

To ensure an adequate connection between the board and frame, check that the wings have detached, and the thread is properly seated within the structure. Use two or more screws per fastening line. Fasten 30 mm from any board edge unless otherwise specified by manufacturer.

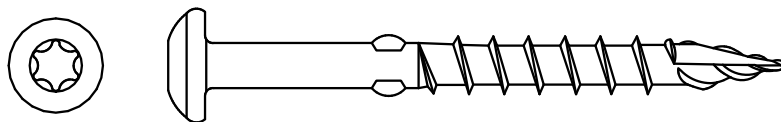


| Property        | Sub-Property               | Value (Metric)    | Value (Imperial)     | Notes                                                                      |
|-----------------|----------------------------|-------------------|----------------------|----------------------------------------------------------------------------|
| Breaking Torque | Drawing Standard           | 9.81 N·m          | 86.8 in·lbf          | Self-drilling tip. Drill point for metal                                   |
|                 | Actual Value               | 11.37 – 12.85 N·m | 100.6 – 113.8 in·lbf | Recommended: 10.91 N·m (96.6 in·lbf)                                       |
| Withdrawal      | 2.0 mm Steel Plate (HV146) | 5.72 kN           | 1286 lbf             | Self-drilling tip. Drilling Depth: 17 mm. Report: Internal testing results |
| Shear Strength  | Steel Plate (2.0 mm)       | 5.5 kN            | 1236 lbf             | Self-drilling tip. Internal test results                                   |

### Timber Trim Screw (M5.5 x 48 mm)

Designed to fasten a 10 to 16 mm thick fascia boards onto timber frames without having to pre-drill, unless otherwise specified by decking manufacturer. Thereafter it is advisable to pre-drill the composite only. Suitable for softwoods and most hardwoods.

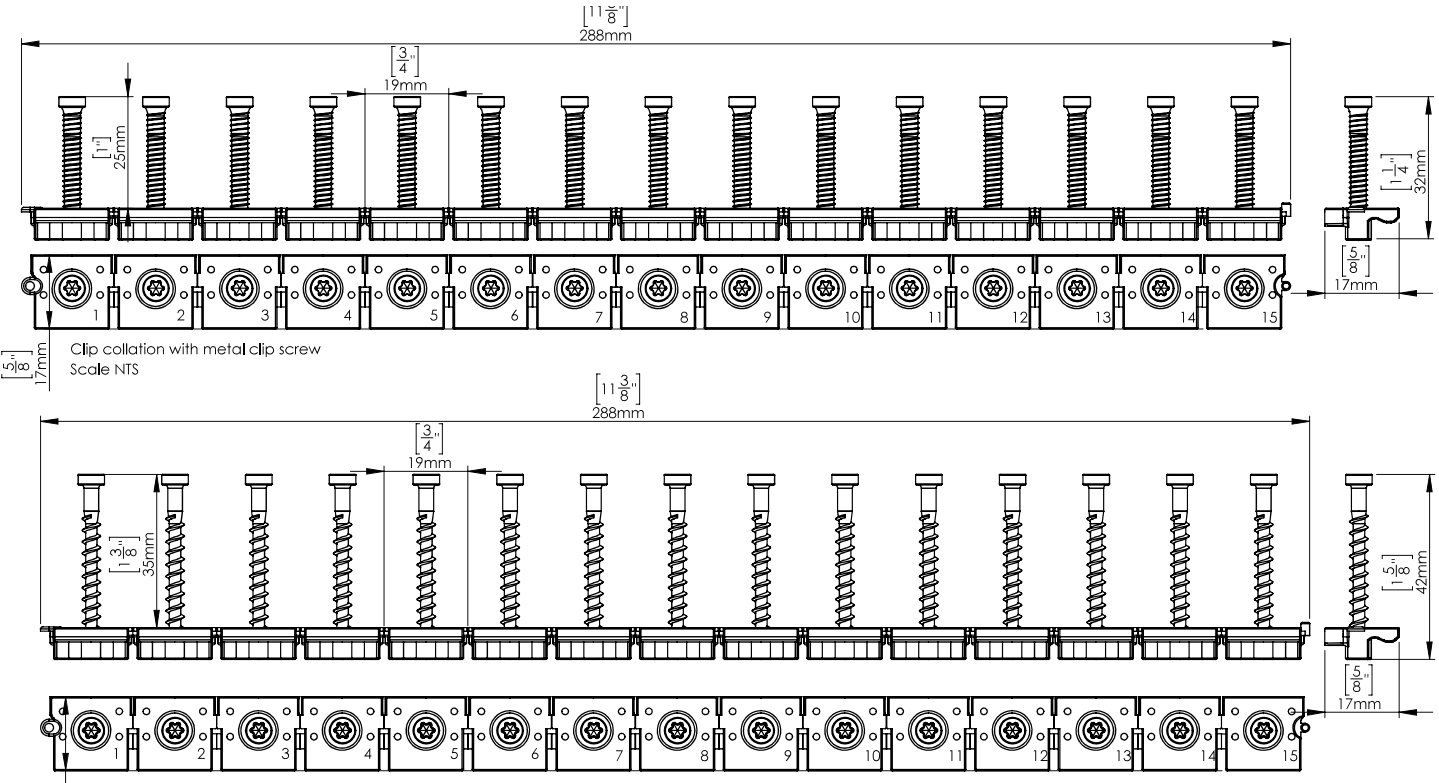
Use two or more screws per fastening line. Fasten 30 mm from any board edge unless otherwise specified by manufacturer.



| Property        | Sub-Property             | Value (Metric) | Value (Imperial) | Notes                                                        |
|-----------------|--------------------------|----------------|------------------|--------------------------------------------------------------|
| Breaking Torque | -                        | -              | -                | No torque settings due to unhardened material                |
| Withdrawal      | ACQ Timber (SG 0.67)     | 5.07 kN        | 1140 lbf         | Type 17 tip. Drilling Depth: 32 mm. Report: internal testing |
|                 | Red Oak Timber (SG 0.72) | 6.51 kN        | 1464 lbf         | Type 17 tip. Drilling Depth: 32 mm. Report: internal testing |
| Shear Strength  | -                        | -              | -                | No shear data available                                      |

Performance Data of Chain Clips

The CHAIN Collated decking clip was assessed by Mining and surface certification (Pty) Ltd (MASC) to determine the failure point of the clips under a tensile load. The environment with which the clips was tested are ideal conditions and may not accurately reflect typical applications.



| Property           | Opening Size (mm) | Average Breakpoint (Metric) | Average Breakpoint (Imperial) | Notes                                                                        |
|--------------------|-------------------|-----------------------------|-------------------------------|------------------------------------------------------------------------------|
| Tensile Breakpoint | 6.5               | >5 kN                       | >1124 lbf                     | No breakage, clips bent. Represents a standard installation. Report: 21-8522 |
|                    | 8.35              | 3.4 kN                      | 770 lbf                       | No breakage, clips bent. Report: 22-8322                                     |
|                    | 9.85              | 2.2 kN                      | 496 lbf                       |                                                                              |



## System Performance (E330, Uplift, Holding Capacity, Pull-Through)

The following table summarises the results of mechanical fastener holding tests and wind uplift resistance tests conducted on various Eva-Last deck board types. The data was obtained from certified CCRR reports, following the ASTM E330 standard and ICC-ES AC174 guidelines. These tests evaluate the structural performance of fasteners and deck boards when subjected to wind uplift forces and mechanical loads.

Data obtained from CCRR reports:

- **Pioneer Board Testing:** 240229004SHF-001
- **Infinity Board Testing:** 200831009SHF-001
- **Apex Board Testing:** 200831006SHF-005

Preliminary results are marked as indicated in the reports.

### Test Conditions and Standards:

The tests simulate typical decking conditions where wind loading is a primary concern. Fasteners are installed according to manufacturer specifications and subjected to static pressure to determine their ultimate uplift load—the maximum pressure before failure. The allowable uplift capacity is calculated by dividing the ultimate load by a safety factor of 3.0, ensuring safe performance under real-world conditions.

### Hidden deck fasteners

This section presents the performance results of hidden deck fasteners used with Eva-Last boards. The fasteners include chain collated clips with both timber and metal clip screws, as well as S9 clips configured with either timber or metal screws. Results are presented as ultimate uplift load and allowable uplift capacity, following controlled testing per the E330 standard.

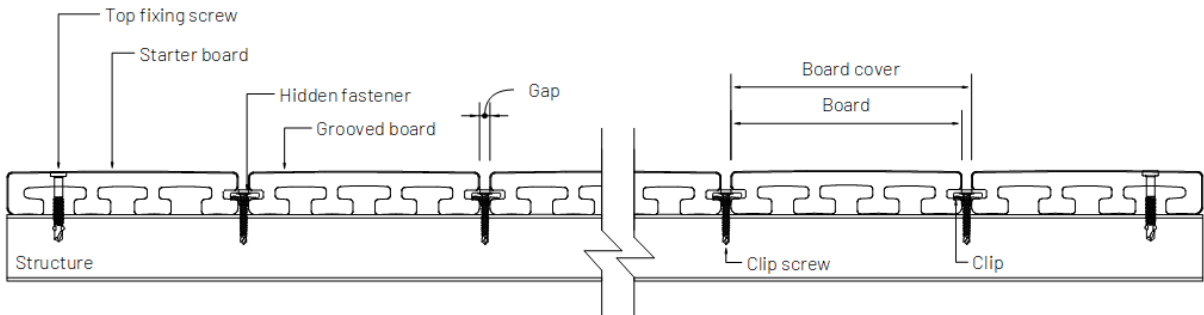


FIGURE 1 - TYPICAL HIDDEN DECK FASTENER ASSEMBLY

| Fastener Type                             | Board Type                       | Board width (mm)(in) | Span (mm)(in) | Fasteners per square meter (10ft²) | Ultimate Uplift Load (kPa)(psf) | Allowable Uplift Capacity at 3.0 SF (kPa)(psf) | Note                 |
|-------------------------------------------|----------------------------------|----------------------|---------------|------------------------------------|---------------------------------|------------------------------------------------|----------------------|
| Chain collated clip and timber clip screw | Pioneer                          | 144.9(5.7)           | 610(24)       | 7                                  | 21.7(> 450)                     | 7.5(150)                                       |                      |
|                                           |                                  | 190(7.5)             | 610(24)       | 5                                  | 359(17.2)                       | 120(5.8)                                       | *Preliminary results |
| Chain collated clip and metal clip screw  | Pioneer                          | 144.9(5.7)           | 610(24)       | 7                                  | 21.7(> 450)                     | 7.5(150)                                       |                      |
|                                           |                                  | 190(5.5)             | 610(24)       | 5                                  | 14.2(297)                       | 4.7(99)                                        | *Preliminary results |
| S9 clip with timber clip screw            | Infinity I-Series 25.4 mm Family | 136(5.4)             | 406(16)       | 14                                 | 14.8(309)                       | 4.9(103)                                       | Clips deformed       |
|                                           | Apex                             | 136(5.4)             | 304(14)       | 21                                 | 21.7(> 450)                     | 7.5(150)                                       |                      |
| S9 clip with metal clip screw             | Infinity I-Series 25.4 mm Family | 136(5.4)             | 406(1)        | 14                                 | 12.4(259)                       | 4.1(86)                                        | Clips deformed       |
|                                           | Apex                             | 140(5.5)             | 304(12)       | 21                                 | 21.7(> 450)                     | 7.5(150)                                       |                      |

Deck top fixing

This section provides the performance characteristics of top-fixed deck screws used to secure Eva-Last boards to both timber and metal joists. The results include uplift load, allowable uplift capacity, fastener withdrawal strength, and pull-through resistance. Deck top fixing configurations typically use two fasteners per board.

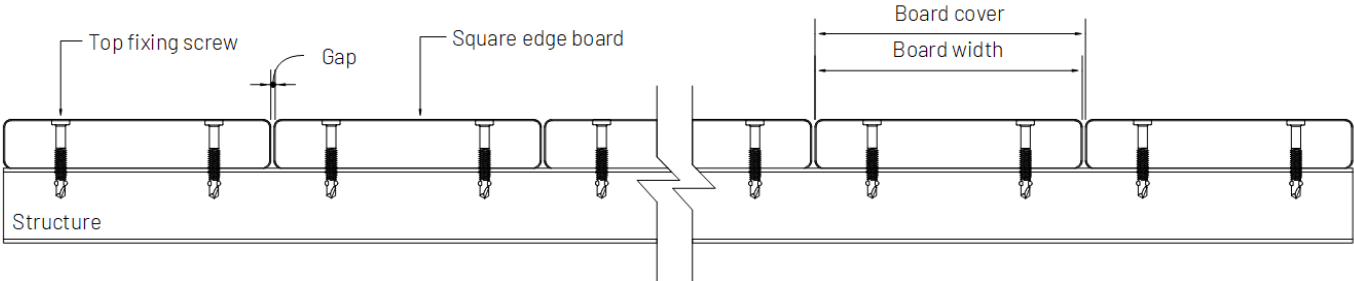
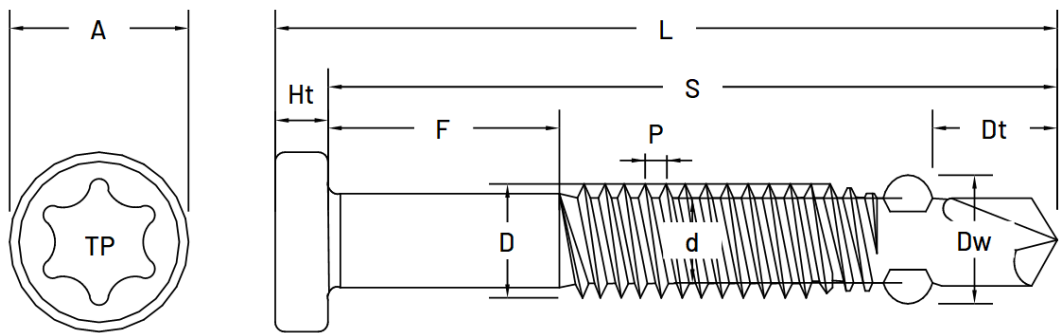


FIGURE 2 - TYPICAL TOP FIXING ASSEMBLY

| Fastener Type      | Board Type | Board width (mm) (in) | Span (mm) (in) | Fasteners per square meter (10ft <sup>2</sup> ) | Ultimate Uplift Load (kPa) (psf) | Allowable Uplift Capacity at 3.0 SF (kPa) (psf) | Fastener Withdrawal kN (lbf) | Pull through kN (lbf) |
|--------------------|------------|-----------------------|----------------|-------------------------------------------------|----------------------------------|-------------------------------------------------|------------------------------|-----------------------|
| Timber Deck Screws | Pioneer    | 144.9                 | 610 (24)       | 14                                              | 21.7 (>450)                      | 7.5 (150)                                       | 2.9 (647)                    | 2.9 (651)             |
|                    | Infinity   | 136                   | 406 (16)       | 28                                              | 21.7 (>450)                      | 7.5 (150)                                       | 877 (197)                    | -                     |
|                    | Apex       | 140                   | 304 (12)       | 42                                              | 21.7 (>450)                      | 7.5 (150)                                       | -                            | -                     |
| Metal Deck Screw   | Pioneer    | 144.9                 | 406 (16)       | 14                                              | 21.7 (>450)                      | 7.5 (150)                                       | -                            | 597 lbf               |
|                    | Infinity   | 136                   | 406 (16)       | 28                                              | 21.7 (>450)                      | 7.5 (150)                                       | -                            | -                     |
|                    | Apex       | 140                   | 304 (12)14     | 42                                              | 21.7 (>450)                      | 7.5 (150)                                       | -                            | -                     |

Screw properties

The following table provides a physical property summary of the currently available Hulk fasteners physical properties. Please see Appendix A for profile drawings and further information.



Comprehensive Screw Properties Table:

| Type                | Material | D                    | L                               | S                      | P                     | TP  | A            | HT                           |                               | F                               | D                       |                         | DT                            | DW                        | Applica-<br>tion                  |
|---------------------|----------|----------------------|---------------------------------|------------------------|-----------------------|-----|--------------|------------------------------|-------------------------------|---------------------------------|-------------------------|-------------------------|-------------------------------|---------------------------|-----------------------------------|
|                     |          | Size<br>(mm)<br>[in] | Total<br>length<br>(mm)<br>[in] | Length<br>(mm)<br>[in] | Pitch<br>(mm)<br>[in] | Bit | Head<br>type | Head<br>size<br>(mm)<br>[in] | Head<br>depth<br>(mm)<br>[in] | Shank<br>length<br>(mm)<br>[in] | Major<br>Ø (mm)<br>[in] | Minor<br>Ø (mm)<br>[in] | Tip<br>length<br>(mm)<br>[in] | Wing<br>Ø<br>(mm)<br>[in] |                                   |
| Timber clip screw   | SS316    | M4.2<br>#8           | 42<br>[1.65]                    | 40<br>[1.57]           | 2.3<br>[0.091]        | T15 | Pan          | 6.0<br>[0.24]                | 2.4<br>[0.09]                 | 7.0<br>[0.28]                   | 4.2<br>[0.17]           | 2.6<br>[0.10]           | N/A                           | N/A                       | SG 0.42<br>min                    |
| Metal clip screw    | C1022    | M4.2<br>#8           | 35<br>[1.38]                    | 32.3<br>[1.27]         | 1.2<br>[0.047]        | T15 | Pan          | 6.0<br>[0.24]                | 2.4<br>[0.09]                 | 0<br>[0.00]                     | 4.2<br>[0.17]           | 6.3<br>[0.25]           | N/A                           | N/A                       | 1.2 to 2.0<br>mm steel            |
| Timber deck screw   | SS316    | M5.0<br>#10          | 64.8<br>[2.55]                  | 64.8<br>[2.55]         | 3.0<br>[0.12]         | T20 | Cup          | 6.8<br>[0.27]                | 3.0<br>[0.12]                 | 23.8<br>[0.94]                  | 5.5<br>[0.22]           | 3.3<br>[0.13]           | N/A                           | N/A                       | SG 0.42<br>min                    |
| Metal deck screw    | C1022    | M4.8<br>#10          | 49.6<br>[1.95]                  | 46.9<br>[1.85]         | 1.2<br>[0.047]        | T20 | Pan          | 7.2<br>[0.28]                | 2.6<br>[0.10]                 | 12.4<br>[0.49]                  | 4.8<br>[0.19]           | 3.6<br>[0.14]           | 6.3<br>[0.25]                 | 5.3                       | 1.2 to 2.0<br>mm steel            |
| Timber trim screw   | SS316    | M5.5<br>#12          | 52<br>[2.05]                    | 48<br>[1.89]           | 3.0<br>[0.12]         | T25 | Button       | 10.0<br>[0.39]               | 3.6<br>[0.14]                 | 17.0<br>[0.67]                  | 5.7<br>[0.22]           | 3.7<br>[0.15]           | N/A                           | 5.5                       | SG 0.42<br>min                    |
| Metal trim screw    | C1022    | M5.5<br>#12          | 40<br>[1.57]                    | 36.3<br>[1.43]         | 1.3<br>[0.051]        | T25 | Button       | 10.0<br>[0.39]               | 3.6<br>[0.14]                 | 8.0<br>[0.31]                   | 5.7<br>[0.22]           | 3.8<br>[0.15]           | 5.95<br>[0.23]                | 6.2                       | 1.2 to 2.0<br>mm steel            |
| Timber frame screws | C1022    | M6.0<br>#14          | 83                              | 80 [3]                 | 4.5<br>[0.18]         | T30 | Pan washer   | 14.5<br>[0.57]               | 3.0<br>[0.12]                 | 30<br>[1.18]                    | 6.2<br>[0.25]           | 4.0<br>[0.157]          | N/A                           | N/A                       | SG 0.42<br>min<br>timber<br>frame |
|                     |          |                      | 103                             | 100 [4]                |                       |     |              |                              |                               | 50<br>[2.0]                     |                         |                         |                               |                           |                                   |

Corrosion

The values provided in the table below are indicative estimates based on typical performance of the individual materials and coatings used in Hulk fasteners, not on full-scale testing. These estimates are intended only as a general guide for comparative purposes and should not be interpreted as guaranteed product lifespans.

All durability figures are derived from standard material references and industry expectations under normal use conditions. Environmental exposure—particularly UV, humidity, salinity, and atmospheric pollutants—will significantly influence actual service life. No warranty is implied. For project-specific recommendations, consult a qualified professional.

| Component                    | Material                                                           | Expected life in normal use                                         | Notes                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Collated clip                | SS304 + polypropylene in a concealed nature                        | C3: 75 years<br>C4: 50 years<br>C5: 25 years<br>Cx: Not recommended | The corrosion resistance of each material was considered individually. These life expectancies were combined with a duplex factor of 1.5. It was found that the lifetime is limited by UV exposure. Exposure of the deck clip to UV depends on the direction of the deck boards, spacing and depth of boards and the geographical location of the deck. Hence, the deck clips lifetime will vary on application as the UV exposure changes. |
| C1022 with Magni 599 coating | Carbon steel, with Zinc epoxy coating, and Magni 599 coating       | C3: 25 years<br>C4: 10 years<br>C5: TBD<br>Cx: No recommended       | The provided information is indicative only; supplemental testing is underway.                                                                                                                                                                                                                                                                                                                                                              |
| SS316 with Magni 599 coating | Stainless steel 316, with Zinc epoxy coating and Magni 599 coating | C3: 30 years<br>C4: 25 years<br>C5: 10 years<br>Cx: 5 years         | The provided information is indicative only; supplemental testing is underway.                                                                                                                                                                                                                                                                                                                                                              |
| SS316 without coating        | Stainless steel 316, with Zinc epoxy coating and Magni 599 coating | C3: 25 years<br>C4: 20 years<br>C5: 5 years<br>Cx: 3 years          | The provided information is indicative only; supplemental testing is underway.                                                                                                                                                                                                                                                                                                                                                              |

Ancillary items

Depth controlling bit Wear resistance;

The table shows wear resistance data for the T15 depth-controlling bit used with chain-collated clips, to determine replacement intervals based on tip wear and failure.

| Application | Material                                     | Torque (N·m) [lb·ft] | Load (kg) [lb] | Speed (RPM) | Number of Fasteners per bit | Condition                             | Result       |
|-------------|----------------------------------------------|----------------------|----------------|-------------|-----------------------------|---------------------------------------|--------------|
| Metal       | M4.2 x 31 mm Carbon Steel Clip Screw T15 Bit | 7.69 [5.67]          | 7.9 [17.4]     | 300         | 267                         | Self-drilling tip. 2.4 mm steel plate | Tip wore out |
| Timber      | M4.2 x 42 mm SS316 Clip Screw T15 Bit        |                      |                |             | 1000                        | Type 17 tip. Testing 1200 screws      | Tip broke    |

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**Website:** [www.eva-last.com](http://www.eva-last.com)

## **Appendix A**

### **Fastener Drawings**

### Profile properties

Material: SS304 PP coated clip  
SS316 screw

Size: M4.2 x 31 mm screw

|           |                           |
|-----------|---------------------------|
| Bit type: | Depth controlling bit T15 |
|-----------|---------------------------|

Predrill hole size: 3.0 to 3.2 (N/A to softwoods)



Note: Screw drawings are for visual representation only and are not to scale or dimensionally accurate.

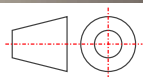
## Drawing title

Chain Collated Clip screw - Timber

## File name

2025-04-07 - Fastener TDS - Appendix A

## File details



|                |    |
|----------------|----|
| Drawing number | 01 |
|----------------|----|

Date May 7, 2025

Page 1 of 8

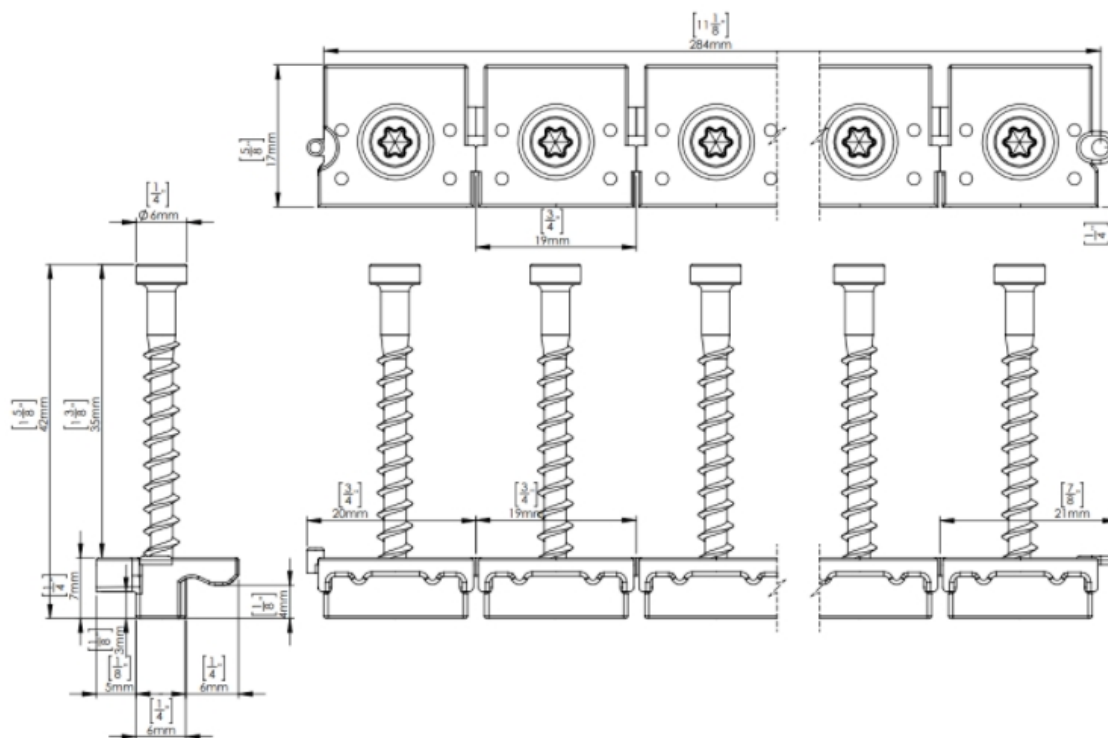
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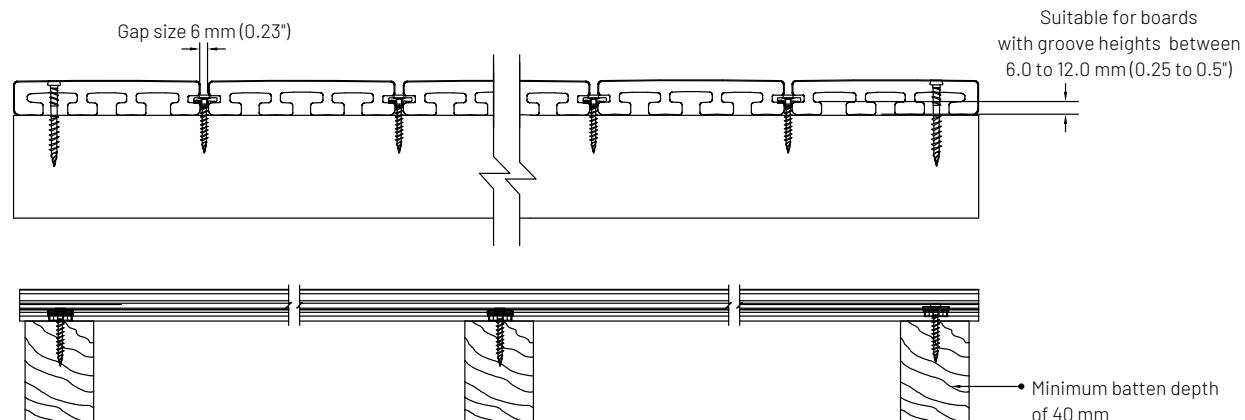
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**echain**  
Collated decking clip



Screw diagram  
NTS



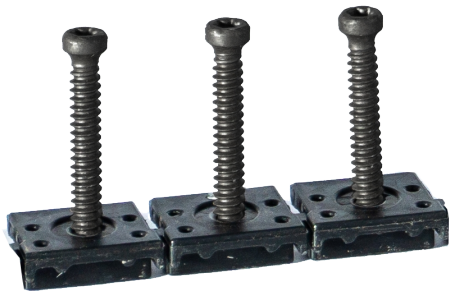
**Screw application**  
NTS

Profile properties

Material: SS304 PP coated clip  
C1022 screw

Size: M4.2 x 31 mm screw

Bit type: Depth controlling bit T15  
Predrill hole size: 3.0 to 3.2.



Note: Screw drawings are for visual representation only and are not to scale or dimensionally accurate.

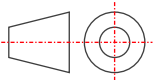
Drawing title

Chain Collated clip screw - Metal

File name

2025-04-07 - Fastener TDS - Appendix A

File details



|                |             |
|----------------|-------------|
| Drawing number | 01          |
| Date           | May 7, 2025 |
| Page           | 2 of 8      |
| Scale          | NTS         |

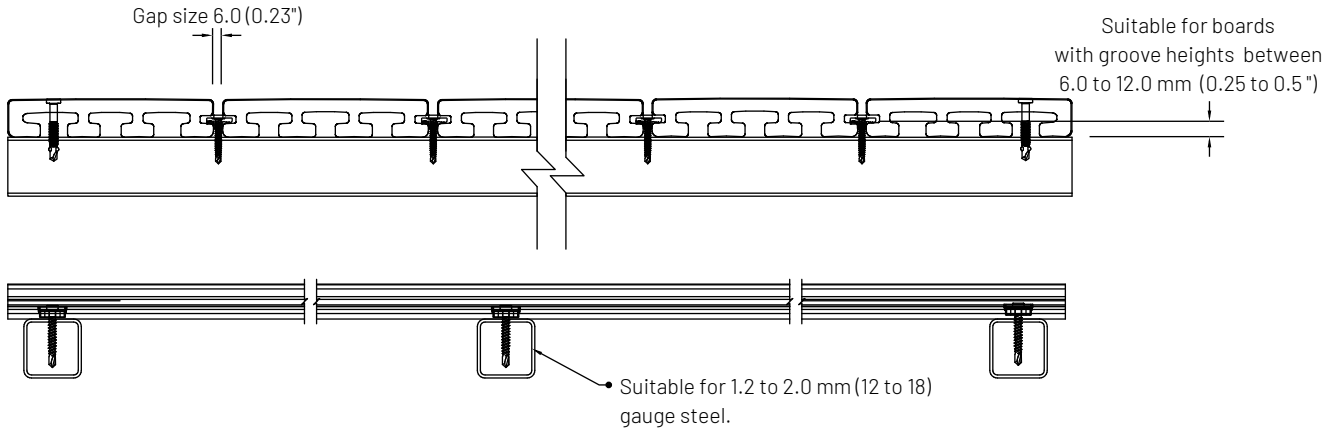
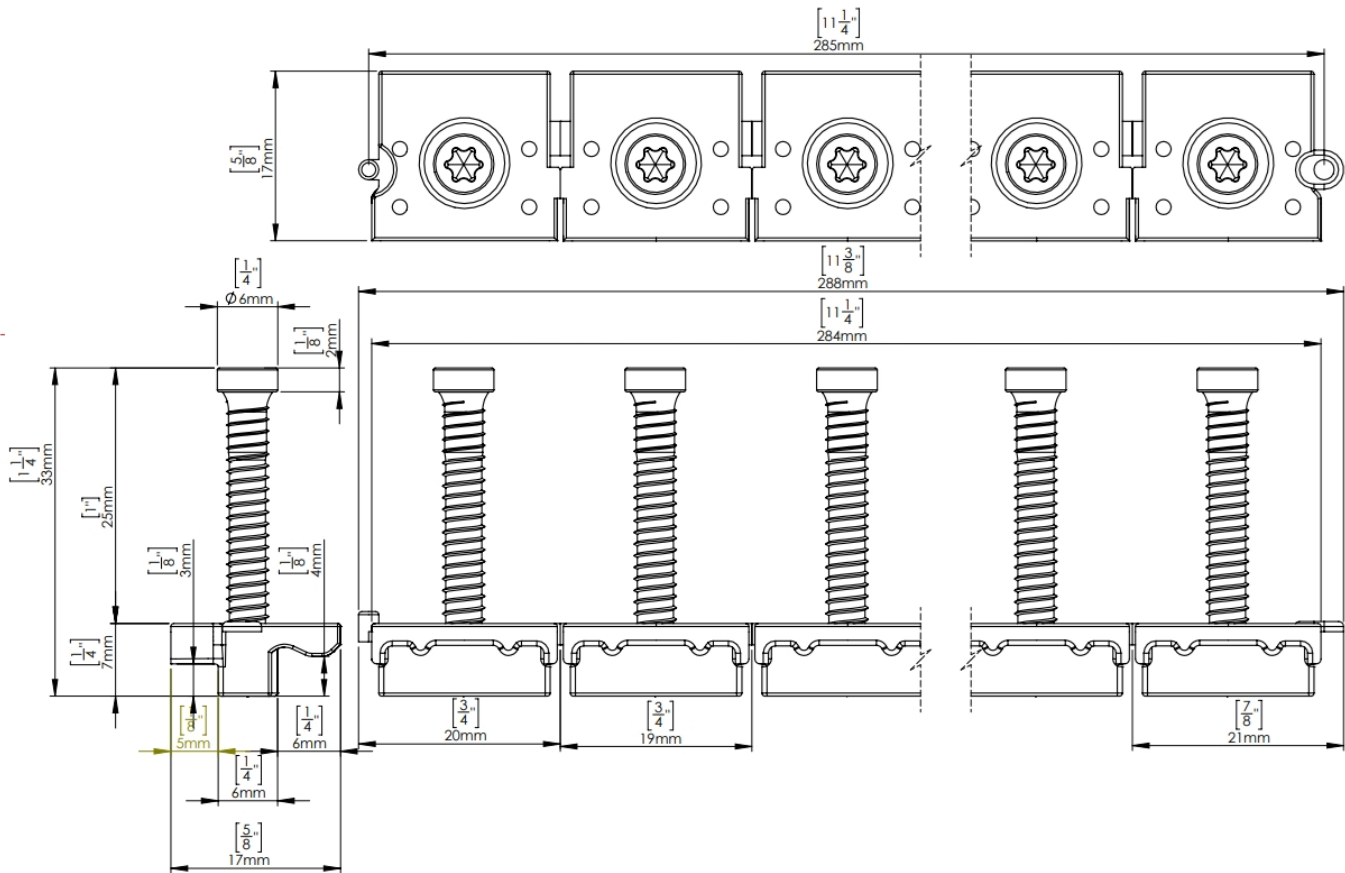
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Screw diagram  
NTS

Screw application  
NTS





#### Profile properties

Material: Steel, Aluminium and Nylon

Size: N/A

Bit type: T15 Depth controlling bit

Predrill hole size: N/A



Note: Screw drawings are for visual representation only and are not to scale or dimensionally accurate.

#### Drawing title

Chain collated clip hand tool

#### File name

2025-04-07 - Fastener TDS - Appendix A

#### File details



Drawing number 01

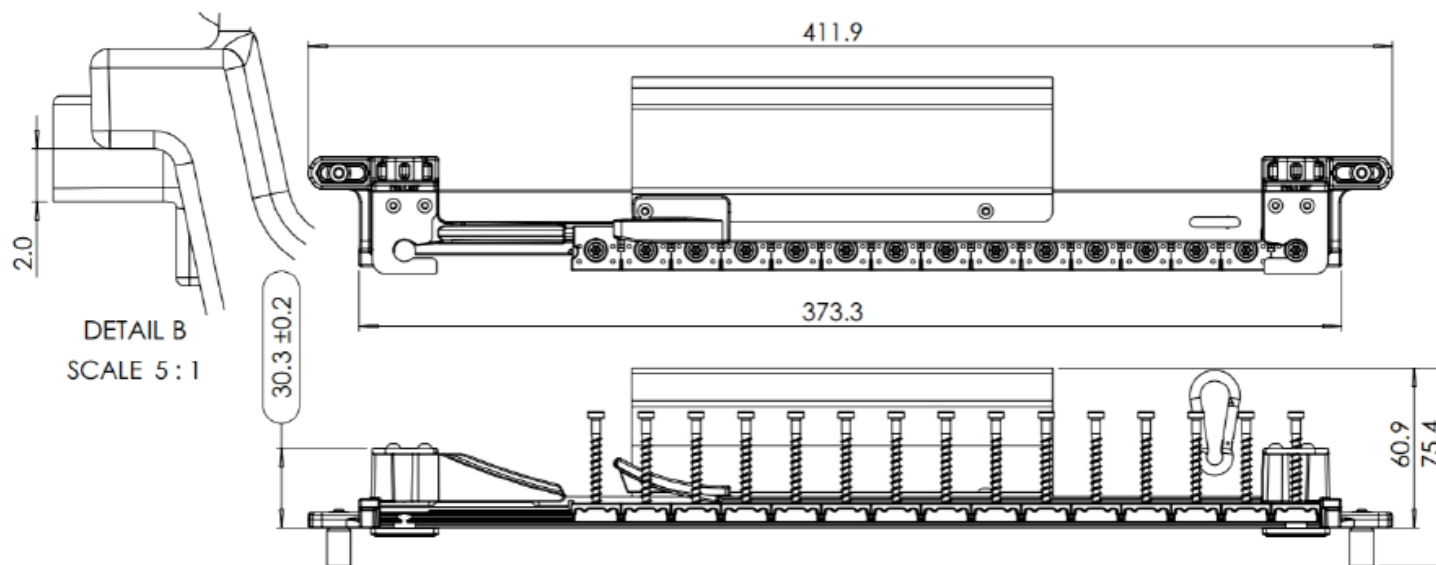
Date April 9, 2025

Page 3 of 9

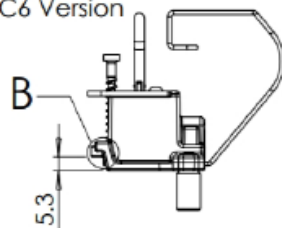
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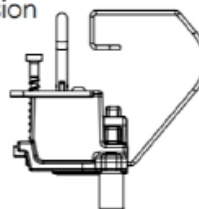
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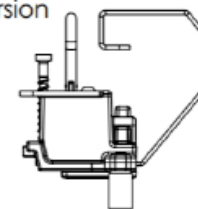
C6 Version



C7 Version



C9 Version



**HULK FASTENERS**

**chain**  
Collated decking clip

### Profile properties

Material: Clip - SS430  
Timber clip screw - SS 316  
Metal clip screw - C1022

Size: S6 - 6mm groove  
S9 - 9mm groove

Bit type: T15 (for clip screws)

Predrill hole size: 3.0 to 3.2 for clip screw



Note: Screw drawings are for visual representation only and are not to scale or dimensionally accurate.

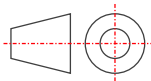
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S6 or S9 clip

### File name

2025-04-07 - Fastener TDS - Appendix A

### File details

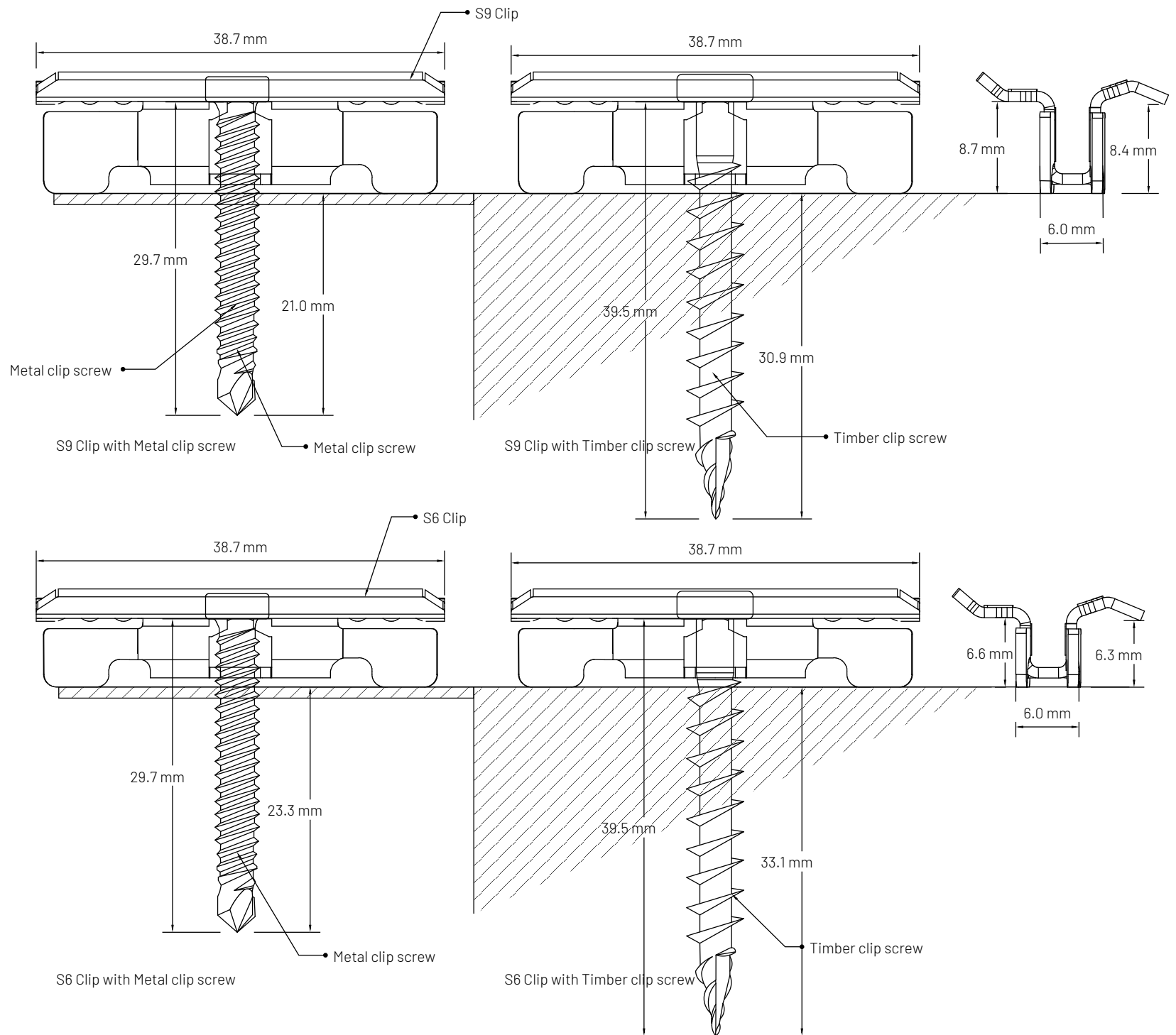


Drawing number 01  
Date May 7, 2025  
Page 7 of 8  
Scale NTS

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**HULK FASTENERS**



## Profile properties

Material: C1022 and SS316

Size: M5.0 x 63 mm  
M5.0 x 58 mm

Bit type: T20

Predrill hole size: N/A



Note: Screw drawings are for visual representation only and are not to scale or dimensionally accurate.

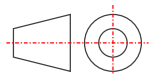
## Drawing title

Timber Deck screw

## File name

2025-04-07 - Fastener TDS - Appendix A

## File details



Drawing number 01

Date May 7, 2025

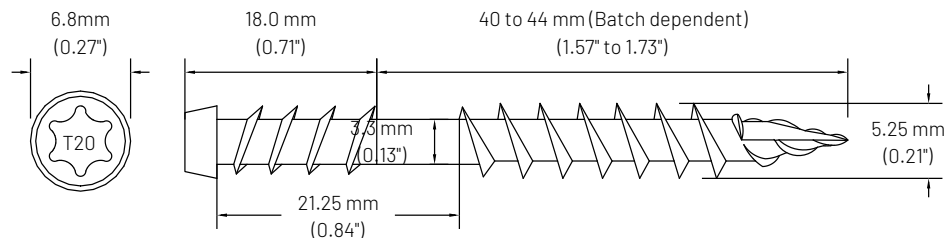
Page 3 of 8

Scale NTS

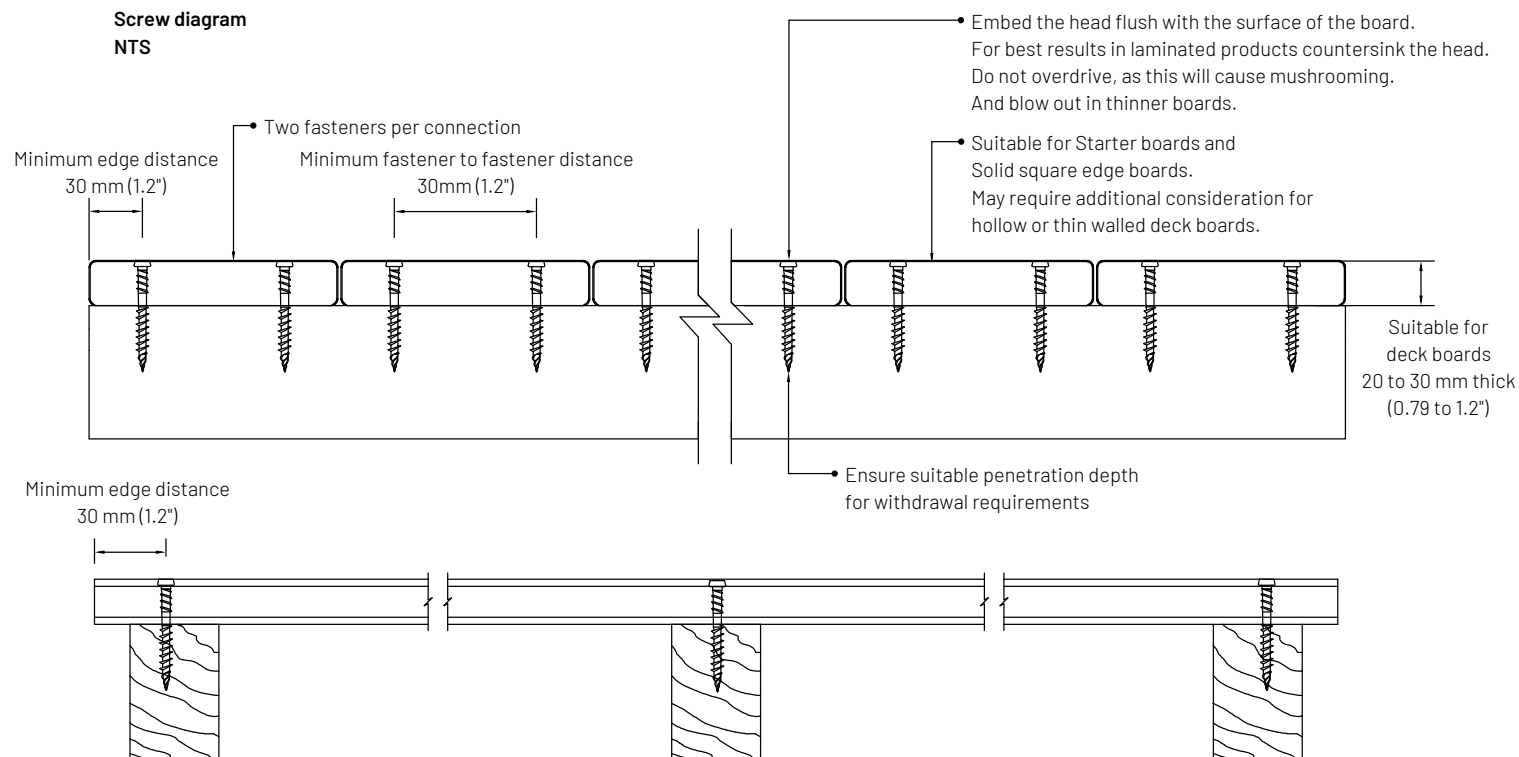
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**HULK FASTENERS**



## Screw diagram NTS



## Screw application NTS

Profile properties

Material: C1022

Size: M4.8 x 45 mm

Bit type: T20

Predrill hole size: Avoid Pre-drilling



Note: Screw drawings are for visual representation only and are not to scale or dimensionally accurate.

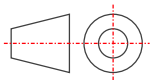
Drawing title

Metal Deck screw

File name

2025-04-07 - Fastener TDS - Appendix A

File details



Drawing number 01

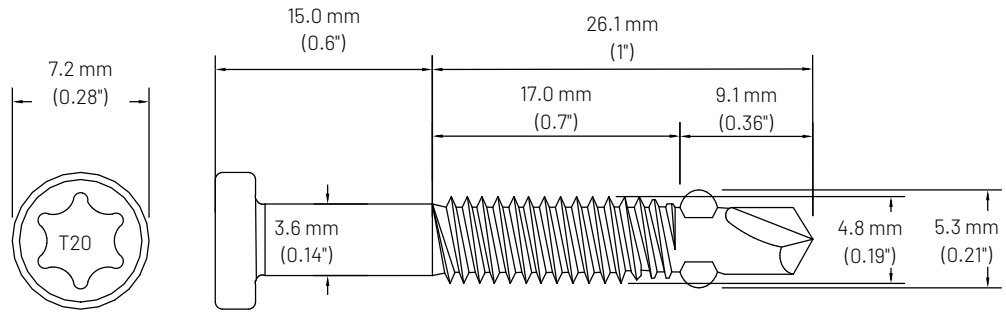
Date May 7, 2025

Page 4 of 8

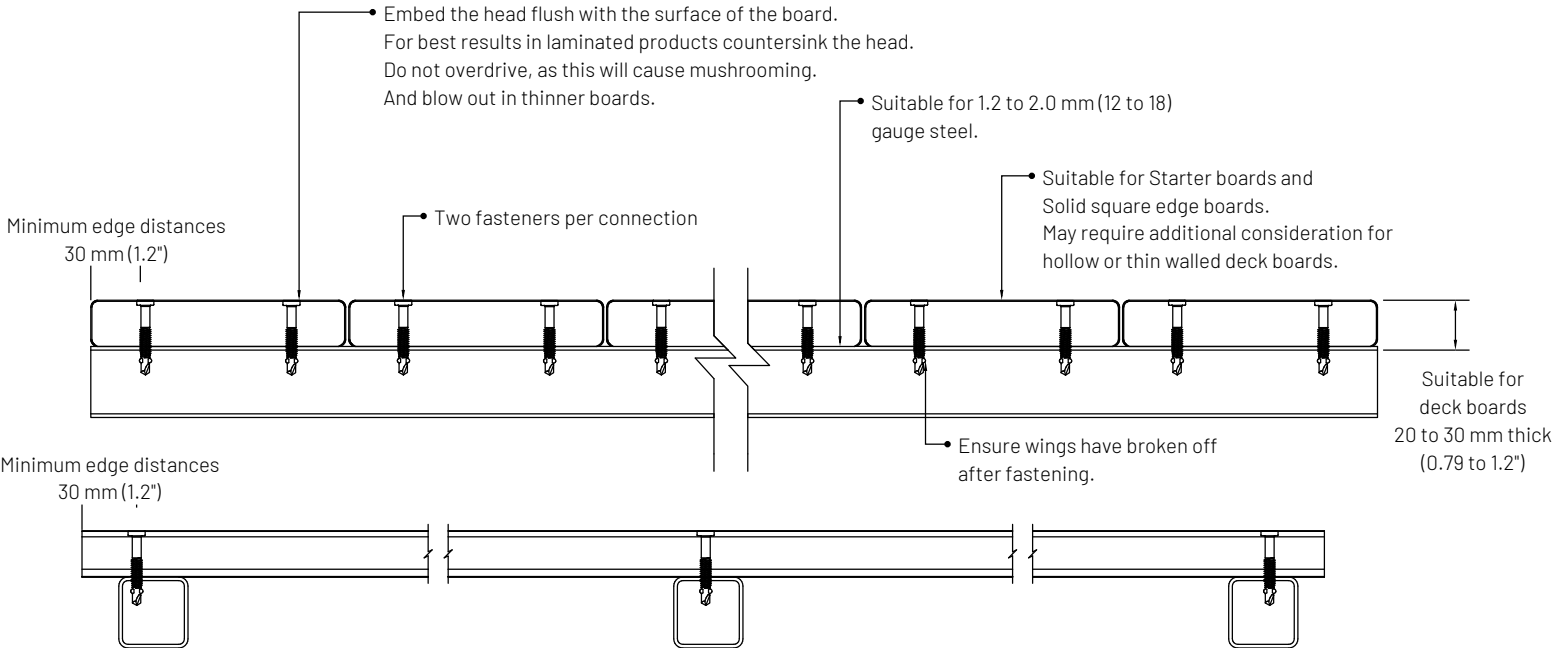
Scale NTS

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Screw diagram  
NTS



Screw application  
NTS

#### Profile properties

Material: SS316

Size:

M5.5 x 45 mm

Bit type: T25

Predrill hole size: Avoid predrilling



Note: Screw drawings are for visual representation only and are not to scale or dimensionally accurate.

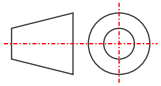
#### Drawing title

Timber Trim screw

#### File name

2025-04-07 - Fastener TDS - Appendix A

#### File details



Drawing number 01

Date May 7, 2025

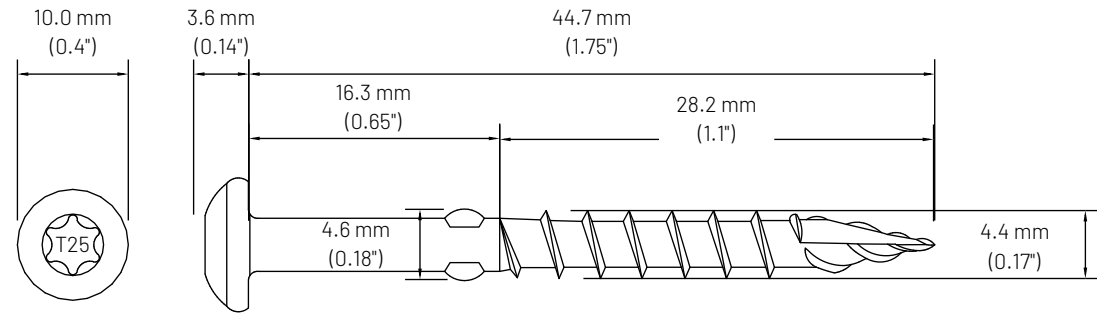
Page 5 of 8

Scale NTS

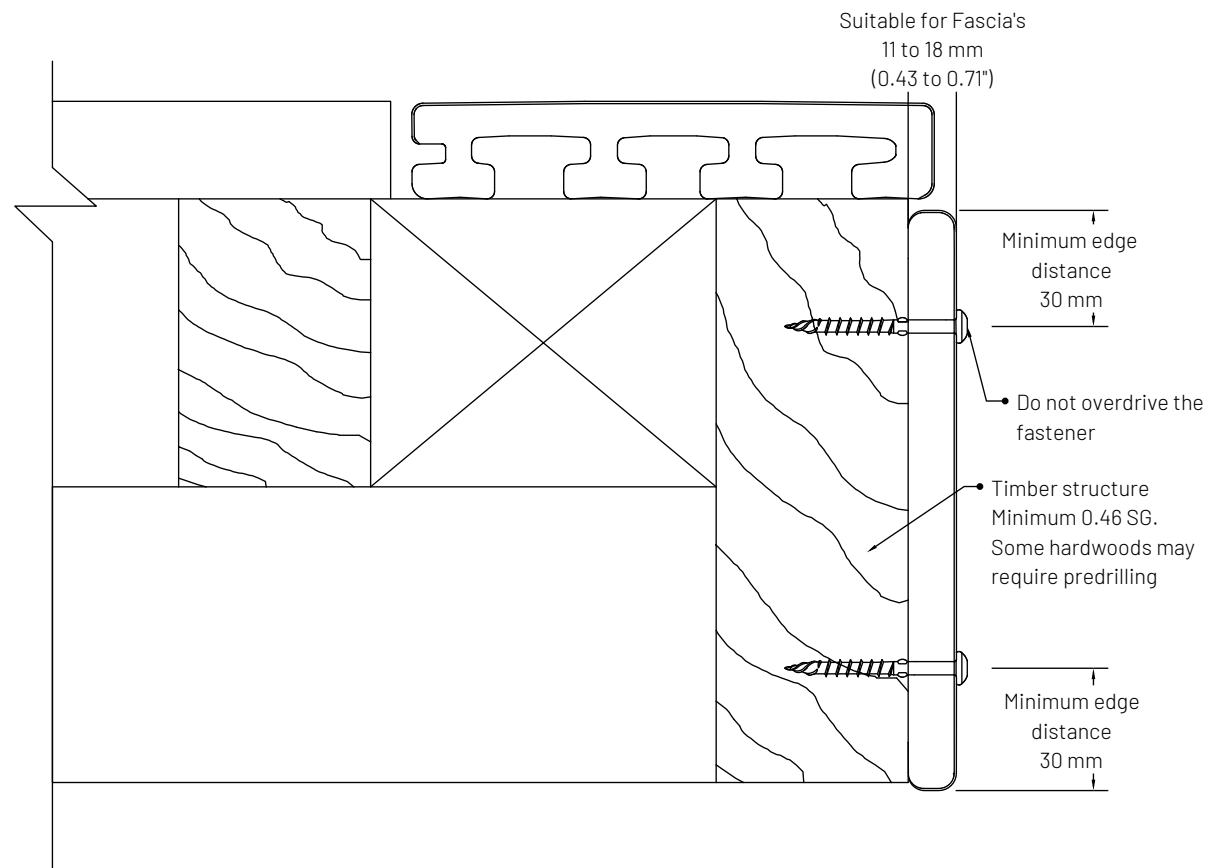
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 **HULK FASTENERS**



#### Screw diagram NTS



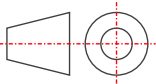
#### Screw application NTS

| Profile properties  |                    |
|---------------------|--------------------|
| Material:           | C1022              |
|                     |                    |
| Size:               | M5.5 x 35 mm       |
| Bit type:           | T25                |
| Predrill hole size: | Avoid pre-drilling |

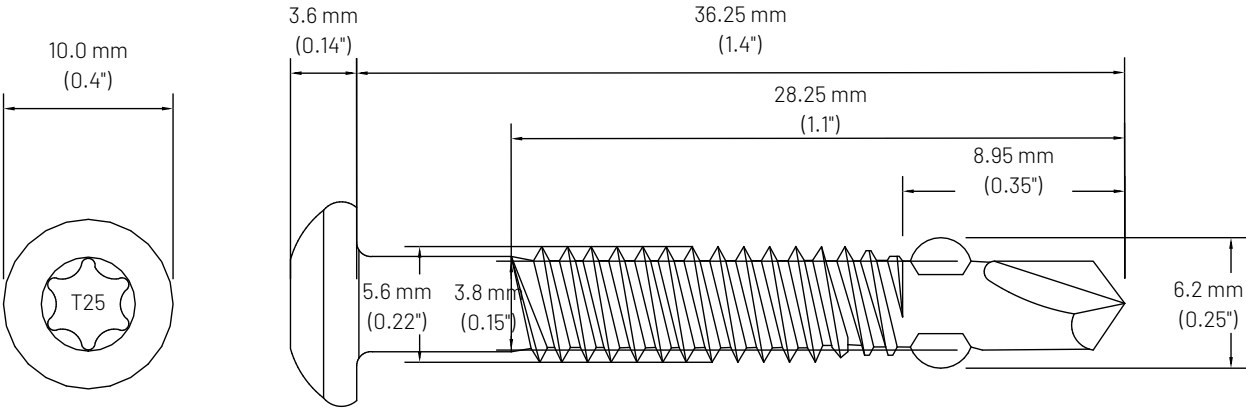


Note: Screw drawings are for visual representation only and are not to scale or dimensionally accurate.

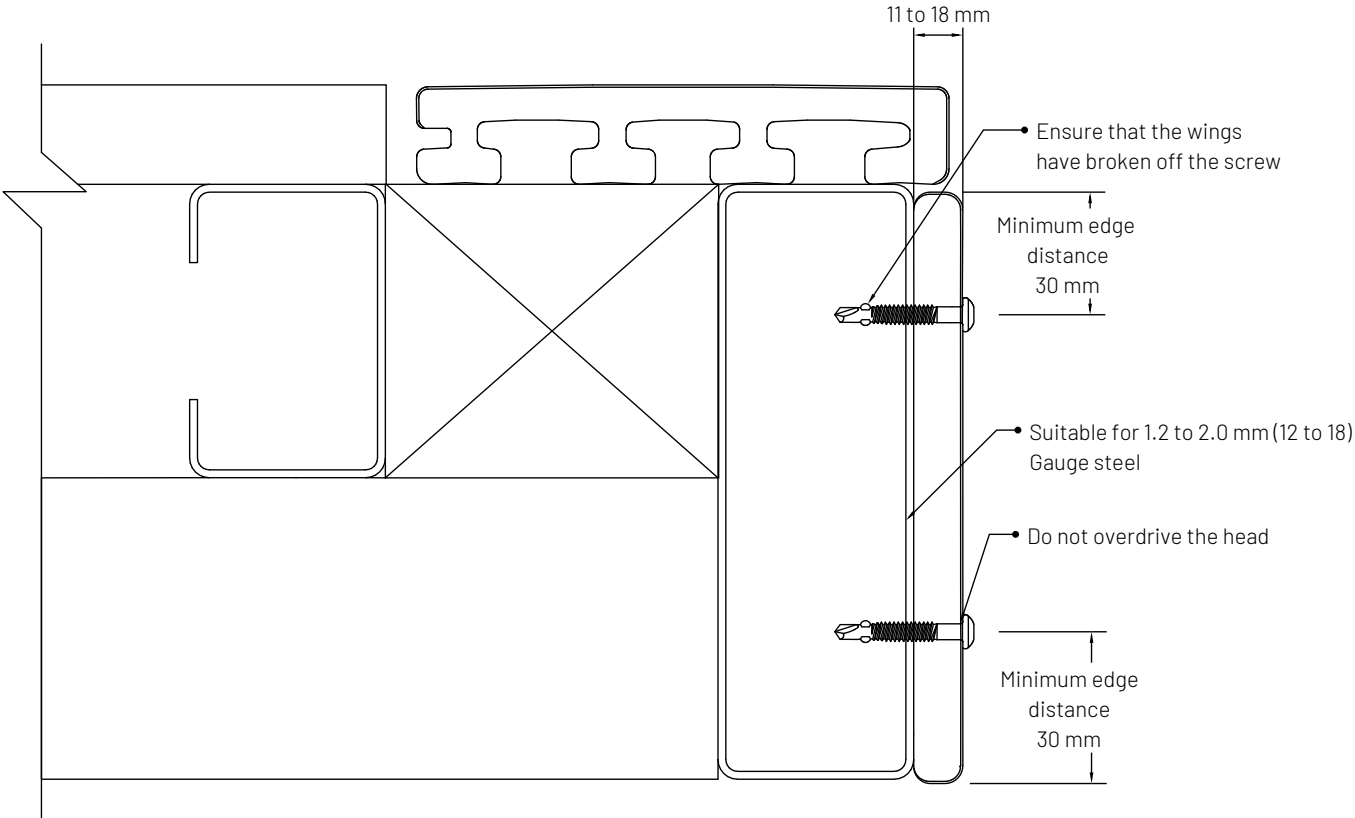
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|----------------------------------------|--|
| Metal Trim screw                       |  |
| File name                              |  |
| 2025-04-07 - Fastener TDS - Appendix A |  |
| File details                           |  |



|                                                                                   |             |
|-----------------------------------------------------------------------------------|-------------|
| Drawing number                                                                    | 01          |
| Date                                                                              | May 7, 2025 |
| Page                                                                              | 6 of 8      |
| Scale                                                                             | NTS         |
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Screw diagram  
NTS



Screw application  
NTS

| Profile properties  |                               |
|---------------------|-------------------------------|
| Material:           | C1022                         |
|                     |                               |
| Size:               | M6.0 x 80 mm<br>M6.0 x 100 mm |
| Bit type:           | T30                           |
| Predrill hole size: | N/A                           |

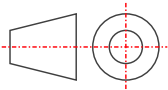


Note: Screw drawings are for visual representation only and are not to scale or dimensionally accurate.

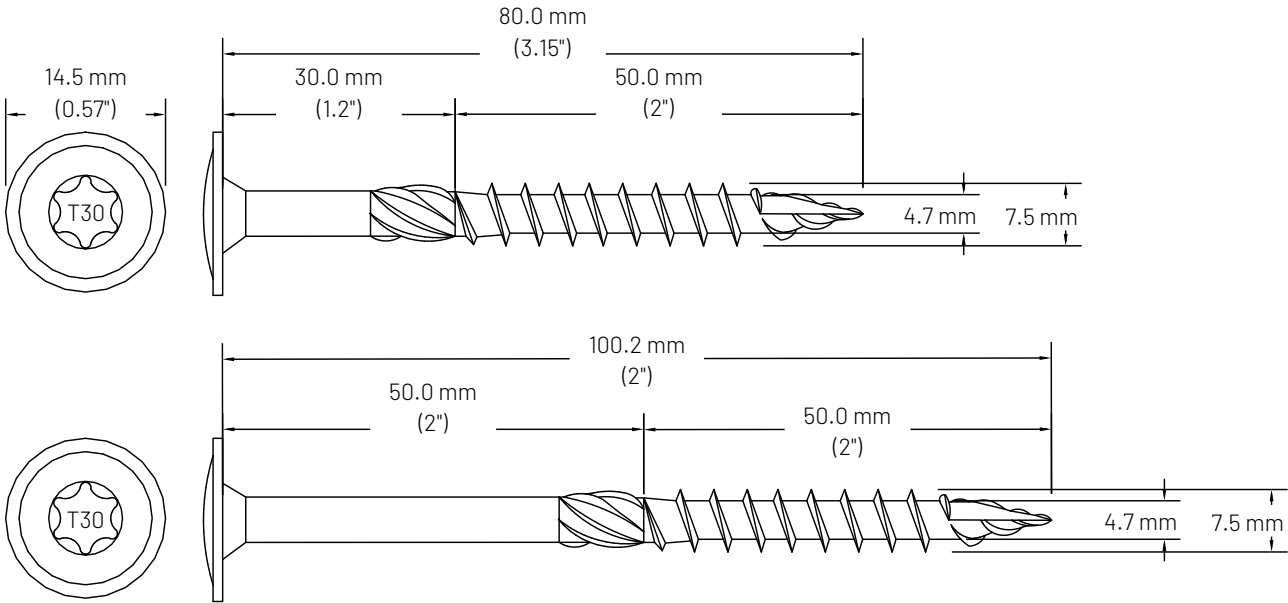
**Drawing title**  
Timber frame screws

**File name**  
2025-04-07 - Fastener TDS - Appendix A

**File details**



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| Drawing number                                                                    | 01          |
| Date                                                                              | May 7, 2025 |
| Page                                                                              | 8 of 8      |
| Scale                                                                             | NTS         |
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## **Appendix B**

### **Coverage & Fastening Frequency**



Coverage

Coverage is defined as the average number of clips required to install a square metre of decking based on the width of the board and the joist span used. The total number of clips required for a project is calculated by multiplying the applicable coverage rate with the total expected area of the deck. A wastage factor is typically allowed for and depends on the complexity of the project. A common industry assumption for a standard install is a wastage of approximately 10%.

Clips per square meter (m²) or per 10.7 ft²

| Board width<br>(mm) | Deck Span (mm) |               |               |               |               |               |               |
|---------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|
|                     | 300<br>(12)    | 350<br>(13.8) | 400<br>(15.8) | 450<br>(17.7) | 500<br>(19.7) | 550<br>(21.6) | 600<br>(22.6) |
| 135 (5.3)           | 27             | 24            | 21            | 19            | 17            | 16            | 15            |
| 140 (5.5)           | 26             | 23            | 20            | 18            | 17            | 15            | 14            |
| 145 (5.7)           | 25             | 22            | 20            | 18            | 16            | 15            | 14            |
| 150 (5.9)           | 25             | 22            | 20            | 17            | 16            | 15            | 14            |
| 180 (7.1)           | 21             | 18            | 16            | 15            | 14            | 13            | 12            |

Note: Board width includes an average gap of 6 mm between subsequent boards. Wastage is not considered in the above table.

Screws per square meter (m²) or per 10.7 ft²

| Board width<br>(mm) | Deck Span (mm) |               |               |               |               |               |               |
|---------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|
|                     | 300<br>(12)    | 350<br>(13.8) | 400<br>(15.8) | 450<br>(17.7) | 500<br>(19.7) | 550<br>(21.6) | 600<br>(22.6) |
| 135 (5.3)           | 54             | 48            | 42            | 38            | 34            | 32            | 30            |
| 140 (5.5)           | 54             | 48            | 40            | 36            | 34            | 30            | 28            |
| 145 (5.7)           | 52             | 44            | 40            | 36            | 32            | 30            | 28            |
| 150 (5.9)           | 52             | 44            | 38            | 38            | 32            | 30            | 28            |
| 180 (7.1)           | 44             | 36            | 30            | 30            | 28            | 26            | 24            |

Note: Board width includes an average gap of 6 mm between subsequent boards. Wastage is not considered in the above table.

Fastening frequency

While some boards can span more than 500 mm (19.7 in.), it is crucial to use enough fasteners to meet load requirements. Should this not meet the withdrawal requirements, consider reducing the span or switching to top-fixing screws instead of hidden fasteners. The relevant appendix in the profile TDS.

The following table provides withdrawal results for reference

| Screw                                          | Material | Withdrawal resistance (kN) | Minimum number of clips per m² (10.7 ft²) to match US Approach | Structure and notes                                            |
|------------------------------------------------|----------|----------------------------|----------------------------------------------------------------|----------------------------------------------------------------|
| Metal deck screw                               | C1022    | 3.3                        | 7                                                              | 2.0 mm (14 ga) Gauge steel                                     |
| Composite deck screw                           | SS316    | 5.7                        | 4                                                              | Pine with Specific gravity of 0.46                             |
| Metal clip screw and Chain collated deck clip  | C1022    | 3.8                        | 6                                                              | 2.0 mm (14 ga) Gauge steel                                     |
| Timber clip screw and Chain collated deck clip | SS316    | 3.8                        | 6                                                              | Pine with Specific gravity of 0.46                             |
| Chain collated deck clip                       | SS304    | 3.4 to 5.0                 | 6                                                              | Normal performance at 6.0 mm groove Worst case at 8.9mm groove |

## **Appendix C**

### **Board Compatibility of Chain Clips**

| Plate size | Profile details |                |             |                               | Metric (mm) |           |               | Imperial (inches) |           |               |
|------------|-----------------|----------------|-------------|-------------------------------|-------------|-----------|---------------|-------------------|-----------|---------------|
|            | Technology      | Brand specific | Category    | Grooved profiles              | Width       | Thickness | Groove height | Width             | Thickness | Groove height |
| C6         | Apex plus       | Decking        | STTHMZQ128  | Grooved profile               | 144.9       | 21        | 6.5           | 5.8               | 0.9       | 0.26          |
|            | Eva-tech        | Decking - IS   | ST01AEF     | I-Series - Grooved profile    | 137         | 23.4      | 6.5           | 5.4               | 1         | 0.26          |
|            | Eva-tech        | Decking - IS   | ST01AEN     | I-Series - Grooved profile    | 137         | 23.4      | 6.5           | 5.4               | 1         | 0.26          |
|            | Infinity        | Decking        | STGJ01      | Solid Grooved board           | 140         | 20        | 6.5           | 5.6               | 0.8       | 0.26          |
|            | Infinity        | Decking - IS   | STGJ113     | I-Series grooved profile      | 134.1       | 25.4      | 6.5           | 5.3               | 1         | 0.26          |
|            | Pioneer         | Decking        | STFM101A    | Grooved deck board            | 144.9       | 21        | 6.5           | 5.8               | 0.9       | 0.26          |
|            | Pioneer         | Decking        | STFM103A    | Grooved deck board            | 141.1       | 24.5      | 6.5           | 5.6               | 1         | 0.26          |
|            | Pioneer         | Decking        | STFM104A    | Single sided starter standard | 145         | 21.3      | 6.5           | 5.8               | 0.9       | 0.26          |
|            | Pioneer         | Decking        | STFM105A    | Grooved wide                  | 190         | 21        | 6.5           | 7.5               | 0.9       | 0.26          |
| C7         | Altitude        | Decking - IS   | STGJTHM06AE | I-series standard             | 136         | 23        | 7.9           | 5.4               | 1         | 0.32          |
|            | Altitude        | Decking - IS   | STGJTHM07AE | I-series wide                 | 173.4       | 23        | 7.9           | 6.9               | 1         | 0.32          |
|            | Altitude        | Decking        | STGJTHM131  | Solid grooved semi cap        | 136         | 23        | 7.9           | 5.4               | 1         | 0.32          |
|            | Altitude        | Decking        | STGJTHM132  | Solid single sided starter    | 136         | 23.3      | 7.9           | 5.4               | 1         | 0.32          |
|            | Apex plus       | Decking        | STTHMZQ134  | Grooved standard              | 140         | 22.5      | 7.9           | 5.6               | 0.9       | 0.32          |
|            | Apex plus       | Decking        | STTHMZQ135  | Grooved wide                  | 190         | 22.5      | 7.9           | 7.5               | 0.9       | 0.32          |
|            | Apex plus       | Decking        | STTHMZQ136  | Single sided starter standard | 140         | 22.8      | 7.9           | 5.6               | 0.9       | 0.32          |
|            | Apex plus       | Decking        | STTHMZQ137  | Single sided starter wide     | 190         | 22.8      | 7.9           | 7.5               | 0.9       | 0.32          |
|            | Infinity        | Decking        | STGJ06AE    | I-series standard             | 136         | 23        | 7.9           | 5.4               | 1         | 0.32          |
|            | Infinity        | Decking        | STGJ07AE    | I-series wide                 | 173.4       | 23        | 7.9           | 6.9               | 1         | 0.32          |
|            | Infinity        | Decking        | STGJ131     | Solid grooved semi cap        | 136         | 23        | 7.9           | 5.4               | 1         | 0.32          |
|            | Infinity        | Decking        | STGJ132     | Solid single sided starter    | 136         | 23.3      | 7.9           | 5.4               | 1         | 0.32          |

|    |           |              |            |                            |     |      |      |     |     |      |
|----|-----------|--------------|------------|----------------------------|-----|------|------|-----|-----|------|
| C9 | Apex      | Decking      | STPVB101   | Grooved profile            | 140 | 24   | 9    | 5.6 | 1   | 0.36 |
|    | Apex      | Decking      | STPVB103   | Grooved profile            | 140 | 24   | 9    | 5.6 | 1   | 0.36 |
|    | Apex      | Decking      | STTHM103   | Grooved profile            | 136 | 24   | 9    | 5.4 | 1   | 0.36 |
|    | Apex      | Decking      | STTHM116   | Grooved profile            | 190 | 24   | 9    | 7.5 | 1   | 0.36 |
|    | Apex plus | Decking      | STTHMZQ103 | Groove profile             | 140 | 24   | 9    | 5.6 | 1   | 0.36 |
|    | Apex plus | Decking      | STTHMZQ116 | Groove profile             | 190 | 24   | 9    | 7.5 | 1   | 0.36 |
|    | Infinity  | Decking - IS | STGJ02AE   | I-Series - Grooved profile | 136 | 25.4 | 9    | 5.4 | 1   | 0.36 |
|    | Infinity  | Decking      | STGJ02AEN  | Solid grooved profile      | 140 | 25.5 | 9    | 5.6 | 1.1 | 0.36 |
|    | Infinity  | Decking - IS | STGJ04AE   | I-Series - Starter profile | 136 | 25.4 | 9    | 5.4 | 1   | 0.36 |
|    | Infinity  | Decking      | STGJ04XX   | Grooved deck board         | 140 | 23   | 9    | 5.6 | 1   | 0.36 |
|    | Origins   | Decking      | STGJ120X   | Round hollow grooved board | 138 | 22.5 | 8.25 | 5.5 | 0.9 | 0.33 |
|    | Origins   | Decking      | STGJ121X   | Square edge solid board    | 138 | 22.5 | 8.25 | 5.5 | 0.9 | 0.33 |
|    | Origins   | Decking      | STGJ135    | Round hollow grooved board | 210 | 22.5 | 8.25 | 8.3 | 0.9 | 0.33 |