

# Mex<sup>®</sup> CLASSIC-C1

## TECHNICAL DATA SHEET

*Mex-Classic C1, made from martensitic stainless steel C1, is a screw specifically developed for fastening wooden components to support wooden structures.*

*The screw features a rounded head, milling and driving threads, a Torx profile, and many other advantages.*

### Description and Benefits of the Mex-Classic C1

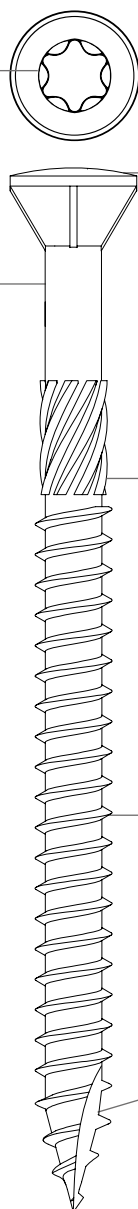
**TORX PROFILE:** Transmits greater torque

**SCREW SHAFT:** Reduces friction and installation torque, increases resistance to breakage, and ensures efficient power transmission

**MARTENSITIC STAINLESS STEEL C1:** High-strength steel with good mechanical resistance. It is corrosion-resistant in less aggressive environments and withstands typical weather conditions excellently

**+ PASSIVATION PROTECTION:** Enhances corrosion resistance

**SUITABLE USE:** Ideal for mounting wooden components to support wooden structures and outdoor furniture in mild outdoor conditions. It is best used with wood types with low tannin content, which provides a long service life and reliable performance



**ROUNDED HEAD:** The smaller, rounded head ensures an aesthetically pleasing, unobtrusive appearance when countersunk into wood

**MILLING THREAD:** Reduces friction and resistance during screwing, minimises the risk of wood splitting, effectively removes chips, and ensures a firm hold of the screw in the material

**DRIVING THREAD:** Allows quick screwing of wooden components to support wooden structures

**TIP:** Equipped with a notch for easier screwing

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## Material Description – Stainless Steel C1

- ✓ Suitable for softwood species and woods with low tannin content, such as pine, spruce, larch, etc.
- ✓ **Surface treatment by passivation** increases corrosion protection
- ✓ **High durability:** C1 is martensitic stainless steel, hardened, and has 50% higher breakaway torque than austenitic stainless steel A2 and A4
- ✓ **Limited corrosion resistance:** Stainless steel C1 is not suitable for use in aggressive environments, such as areas with high salt or chlorine content
- ✓ Magnetic properties



SOFTWOOD  
APPLICATIONS



HIGH STRENGTH  
OF THE SCREW



DECKING  
APPLICATIONS



GENERAL USE FOR WOOD  
CONSTRUCTIONS



MAGNETIC PROPERTIES  
OF THE SCREW



## Mex-Classic C1 is intended for:



### Softwood species

- ✓ Spruce
- ✓ Siberian Larch\*
- ✓ Silesian Larch\*
- ✓ Pine (with and without pressure treatment)

*Note: This recommendation may not apply to all usage scenarios. The properties and lifespan of the screw can be influenced by specific environmental conditions. Therefore, we recommend consulting with your dealer.*

*\* It is possible to use, but we recommend consulting with your dealer.*

## Decking Screw Offer

| Art. No.   | Screw Name     | Size      | Torx | Packaging |
|------------|----------------|-----------|------|-----------|
| 3235C1CLAS | Mex-Classic-C1 | 3,2x35 mm | TX15 | 200 pcs   |
| 440C1CLAS  | Mex-Classic-C1 | 4,0x40 mm | TX15 | 200 pcs   |
| 550C1CLAS  | Mex-Classic-C1 | 5,0x50 mm | TX25 | 200 pcs   |
| 560C1CLAS  | Mex-Classic-C1 | 5,0x60 mm | TX25 | 200 pcs   |

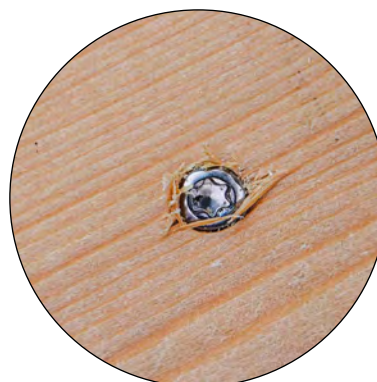
## Assessment of screw properties

| Product                                | Characteristic yield moment<br>$M_{y,k}$ [Nmm]               | Characteristic withdrawal parameter $f_{ax,k}$ [N/mm²] |                       | Characteristic head pull-through parameter<br>$f_{head,k}$ [N/mm²] | Characteristic tensile capacity<br>$f_{tens,k}$ [kN]x | Characteristic torsional ratio |
|----------------------------------------|--------------------------------------------------------------|--------------------------------------------------------|-----------------------|--------------------------------------------------------------------|-------------------------------------------------------|--------------------------------|
|                                        |                                                              | perpendicular to the grain                             | parallel to the grain |                                                                    |                                                       |                                |
| Mex-Classic-C1 ø 5,0 mm                | 8,512                                                        | 16,46                                                  | 13,27                 | 22,94                                                              | 9,63                                                  | 3,65                           |
| Characteristic density of wood [kg/m³] | –                                                            | 350                                                    |                       | 350                                                                | –                                                     | 450                            |
| Durability (i.e. corrosion protection) | Stainless steel SS 410 (Service class 3 acc. to EN 1995-1-1) |                                                        |                       |                                                                    |                                                       |                                |

*During installation, it is recommended to pre-drill holes for the screws to ensure accuracy and reduce the risk of material damage.*



With Pre-drilling



Without Pre-drilling