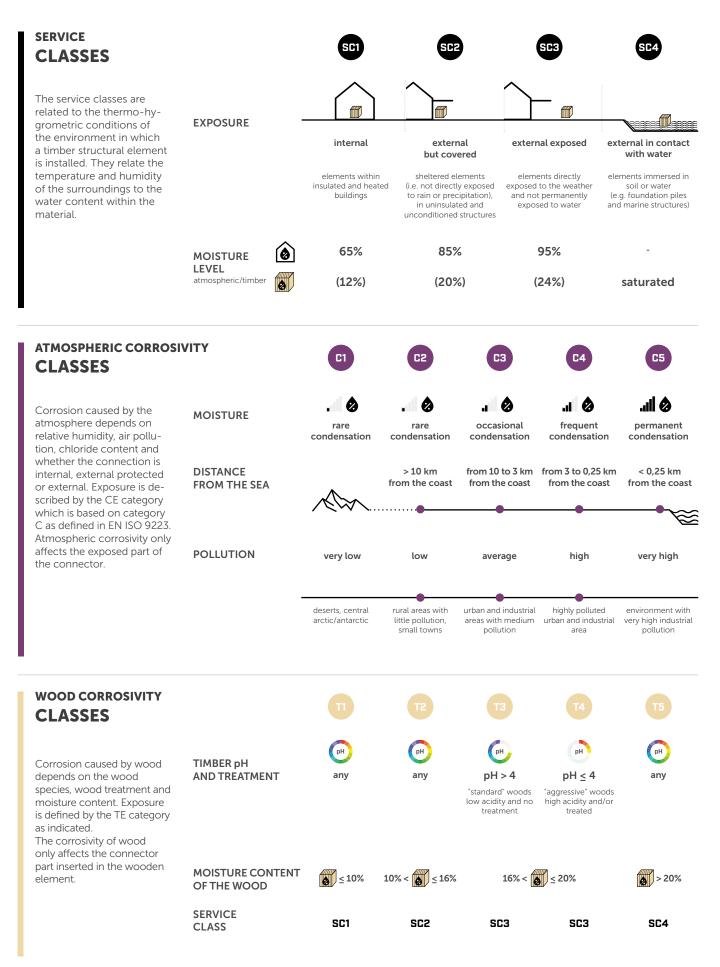
# LOCK CONNECTOR SELECTION AND GUIDE TO DURABILITY

MANANA



Solutions for Building Technology

# CORROSION



For further information, see SMARTBOOK TIMBER SCREWS at www.rothoblaas.com.

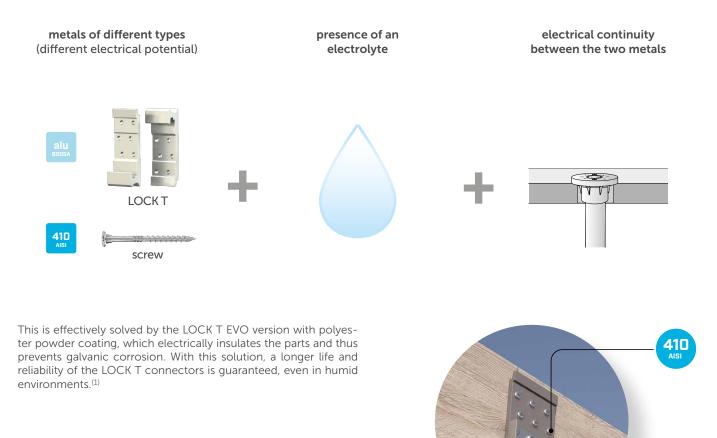
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#### CORROSION RESISTANT

Manufactured from aluminium alloy EN AW-6005A, the LOCK T concealed connector offers considerable resistance to atmospheric corrosion, especially in non-aggressive environments. It is suitable for outdoor use in service class 3, which makes it a versatile choice for various fastening requirements, especially when combined with careful screw selection. With its polyester-based powder coating (Qualicoat class 1 certified), the LOCK T EVO version is particularly suitable for environments with a higher presence of corrosive agents.

#### GALVANIC CORROSION

When selecting the combination of LOCK T connector and screw, it is essential to consider the phenomenon of galvanic corrosion. This phenomenon takes place whenever two dissimilar metals come into contact in the presence of an electrolyte, such as moisture or an aqueous solution. If the contact area between the screw and the LOCK T connector is subjected to moisture, it may corrode due to the electrochemical potential difference between the metals. Three specific conditions must be fulfilled simultaneously for galvanic corrosion to occur:



**DC** SWELLING: T 1 Ter SWELLING: STRESS INCR T 1 T

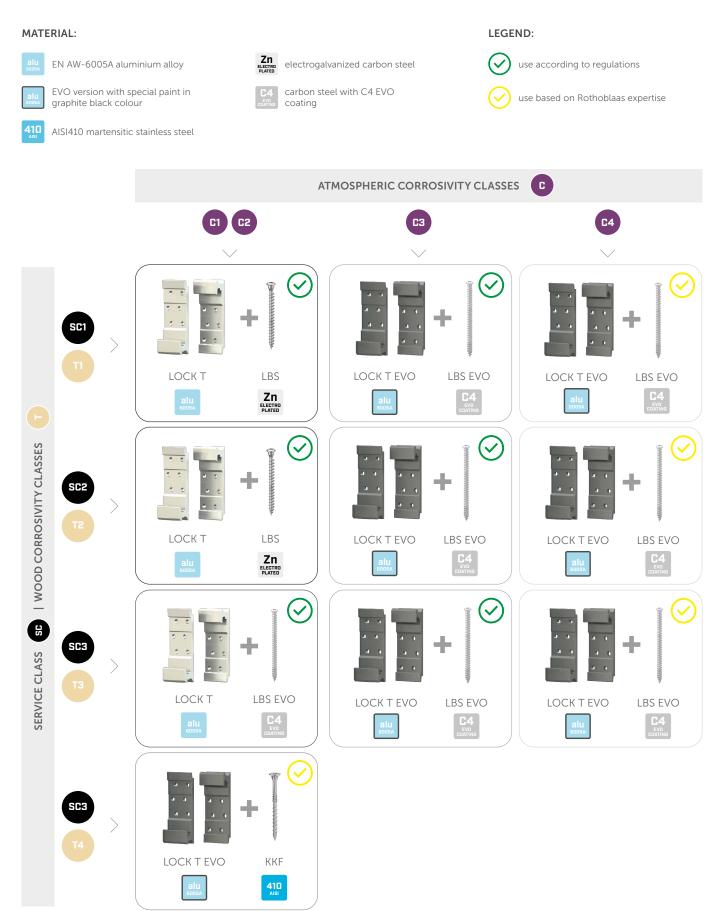
<sup>(1)</sup> For more in-depth information on the service, environmental and timber corrosivity class, refer to the "TIMBER SCREWS AND DECK FASTENING"catalogue and the "SMARTBOOK TIMBER SCREWS". Visit www.rothoblaas.com in the catalogue section.

Theory, practice and experimental campaigns: our experience is in your hands. Download the SMARTBOOK TIMBER SCREWS.



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#### DURABILITY MATRIX



#### NOTES

• LOCK STOP can be used as an accessory, available with hot dip galvanised coating (Z275) up to SC2,C2 and stainless steel (AISI304) up to SC3,C4



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