



Mex[®] COMPLEX-A4

TECHNICAL DATA SHEET

Mex-Complex A4, made from austenitic stainless steel A4 is a screw specifically developed for fastening wooden components to wooden substructures.

The screw features a special countersunk head, driving threads, a Torx profile, and many other advantages.

Description and Benefits of the Mex-Complex A4

TORX PROFILE: Transmits greater torque

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

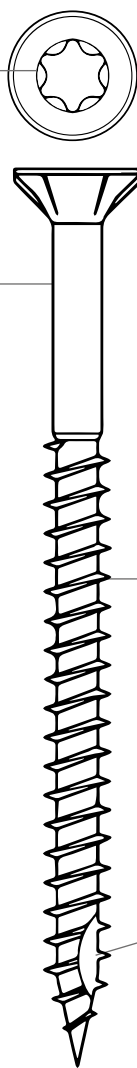
STAINLESS STEEL

A4: Excellent corrosion resistance, ideal for outdoor use in woods with high tannin content

+ PASSIVATION

PROTECTION: Enhances corrosion resistance

SUITABLE USE: Decking, facades, outdoor furniture, and construction of medium-hardwood with high tannin content, as well as for thermowood and softwood species



COUNTERSUNK HEAD:

The specially designed countersunk head provides an aesthetically pleasing, unobtrusive appearance when countersunk into wood

DRIVING THREAD: Allows quick screwing of wooden components to wooden substructures

TIP: Equipped with a notch for easier screwing

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Material Description – Stainless Steel A4

- ✓ Suitable for wood with a high tannin content, such as Bukit, Teak, Oak, etc., as well as for thermowood and softwood species
- ✓ **Surface treatment by passivation** increases corrosion protection
- ✓ Suitable for saline environments
- ✓ Acid-resistant under certain conditions
- ✓ Can be used in service classes 1, 2, and 3 (ČSN EN 1995-1-1)
- ✓ Suitable for chlorinated environments to a limited extent



SOFTWOOD &
MEDIUM-HARDWOOD
APPLICATIONS



GOOD RESISTANCE
IN SALINE
ENVIRONMENTS



CLADDING
APPLICATIONS



GENERAL USE
FOR WOOD
CONSTRUCTIONS



APPLICATION
IN AREA OF
INDOOR POOLS



ACID
RESISTANCE



Mex-Complex A4 is intended for:



Softwood species

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



Thermowood

- ✓ Thermowood Pine
- ✓ Thermowood Ash
- ✓ Thermowood Spruce



**Medium-hardwood
species – with high
tannin content**

- ✓ Dark Red Meranti - Bukit
- ✓ Teak
- ✓ Oak

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.

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Facade Screw Offer

Art. No.	Screw Name	Size	Torx	Packaging
440A4COM	Mex-Complex-A4	4,0x40 mm	TX20	200 pcs
445A4COM	Mex-Complex-A4	4,0x45 mm	TX20	200 pcs
450A4COM	Mex-Complex-A4	4,0x50 mm	TX20	200 pcs
455A4COM	Mex-Complex-A4	4,0x55 mm	TX20	200 pcs
460A4COM	Mex-Complex-A4	4,0x60 mm	TX20	200 pcs
4540A4COM	Mex-Complex-A4	4,5x40 mm	TX20	200 pcs
4545A4COM	Mex-Complex-A4	4,5x45 mm	TX20	200 pcs
4560A4COM	Mex-Complex-A4	4,5x50 mm	TX20	200 pcs
4560A4COM	Mex-Complex-A4	4,5x60 mm	TX20	200 pcs
4570A4COM	Mex-Complex-A4	4,5x70 mm	TX20	200 pcs
540A4COM	Mex-Complex-A4	5,0x40 mm	TX25	200 pcs
545A4COM	Mex-Complex-A4	5,0x45 mm	TX25	200 pcs
550A4COM	Mex-Complex-A4	5,0x50 mm	TX25	200 pcs
560A4COM	Mex-Complex-A4	5,0x60 mm	TX25	200 pcs
570A4COM	Mex-Complex-A4	5,0x70 mm	TX25	200 pcs

Assessment of screw properties

Product	Characteristic yield moment $M_{y,k}$ [Nmm]	Characteristic withdrawal parameter $f_{ax,k}$ [N/mm²]		Characteristic head pull-through parameter $f_{head,k}$ [N/mm²]	Characteristic tensile capacity $f_{tens,k}$ [kN]x	Characteristic torsional ratio
		perpendicular to the grain	parallel to the grain			
Mex-Complex-A4 ø 5,0 mm	3,004	15,74	14,63	20,79	4,25	1,73
Characteristic density of wood [kg/m³]	—	350		350	—	450
Durability (i.e. corrosion protection)	Stainless steel AISI 316 (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