



Mex[®] FLAT-A4

TECHNICAL DATA SHEET

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

The screw features a trilobular geometry, an extra reinforced shank, an additional driving thread, a Torx profile, and many other advantages.

Description and Benefits of the Mex-Flat A4

TORX PROFILE: Transmits greater torque

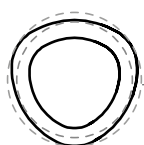
TEETH UNDER THE HEAD: Reduces the risk of burrs – clean connection

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

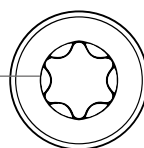
STAINLESS STEEL A4: Excellent corrosion resistance, ideal for outdoor use in woods with high tannin content

+ PASSIVATION PROTECTION: Enhances corrosion resistance

SUITABLE USE: Decking, outdoor furniture, and construction of structures from hard and tropical woods with high tannin content, as well as thermowood and softwoods species



TRILOBULAR HEAD GEOMETRY: Reduces installation torque and the risk of screw breakage = safer installation



FLAT HEAD: Aligns with the surface of the wooden material for a seamless appearance



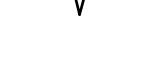
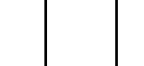
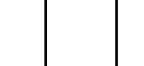
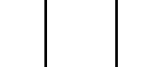
REINFORCED SHANK: Ideal for tropical hardwoods, reducing the risk of screw head breakage



DRIVING THREADS: The lower thread allows quick screwing, and the upper thread additionally pulls the decking boards to the substructure



TIP: Facilitates screwing into the wood



Material Description – Stainless Steel A4

- ✓ Suitable for woods with high tannin content, such as Cumaru, Merbau, Bangkirai, etc., as well as thermowood and softwoods 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
AND HARDWOOD
APPLICATION



GOOD RESISTANCE
IN SALINE
ENVIRONMENTS



DECKING
APPLICATIONS



GENERAL USE
FOR WOOD
CONSTRUCTIONS



APPLICATION
IN AREA OF
INDOOR POOLS



ACID
RESISTANCE



Mex-Flat 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



**Hardwood species –
with high tannin
content**

- ✓ Bangkirai
- ✓ Massaranduba
- ✓ Dark Red Meranti - Bukit
- ✓ Merbau
- ✓ Garapa
- ✓ Ipe
- ✓ Teak
- ✓ Cumaru
- ✓ 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.

Decking Screw Offer

Art. No.	Screw Name	Size	Torx	Packaging
5540A4FLAT	Mex-Flat-A4	5,5x40 mm	TX25	200 pcs
5550A4FLAT	Mex-Flat-A4	5,5x50 mm	TX25	200 pcs
5560A4FLAT	Mex-Flat-A4	5,5x60 mm	TX25	200 pcs
5570A4FLAT	Mex-Flat-A4	5,5x70 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-Flat-A4 ø 5,5 mm	7,772	15,06	13,20	25,11	7,79	2,21
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