

ALUMINIUM PROFILE GEOMETRY

To make orientation easier for you, we have specified the geometry of the respective compatible aluminum profile where appropriate. In addition, you will find detailed dimensions and tolerances of the most important profile shapes in the table.

 I							PROFILE			B 						
Edge Radius [mm]	Thread	Core diameter [mm]	Slot Depth T [mm]	A2 [mm]	Slot	Tolerance	Modular Dimension [mm]			Tolerance	Slot	A2 [mm]	Slot Depth T [mm]	Core Diameter [mm]	Thread	Edge Radius [mm]
2.0	M5 (max. M6)	Ø 4.3 ±0.1 (drill max. Ø 6)	6.35 ±0.15	1.8 ±0.1	5 +0.3 -0.0	±0.15	20			±0.15	6 +0.3 -0.0	1.5	5.5	Ø 5.5 +0.2 -0.1	S6 M6	1.15
3.0	M6 (max. M8)	Ø 5.0 +0.2 -0.0 (drill max. Ø 8)	9.75 +0.2 -0.0	3.0 +0.00 -0.25	6.2 +0.3 -0.0	±0.2	30			±0.2	8 +0.3 -0.0	2.2	9.0	Ø 7.3 +0.2 -0.1	S8 M8	2.0
4.0 X: 1.0	S7 M8 (max. M12)	Ø 6.8 +0.0 -0.2 (drill max. Ø 13)	12.25 +0.3 -0.0	4.5 +0.3 -0.0	8 +0.4 -0.0	±0.2	40			40: ±0.6 80: ±0.8 120: ±1.0 160: ±1.6	10 +0.4 -0.0	6.0	12.5	Ø 10.0 ±0.15	S12 M12	3.0
							45			45: ±0.3 90: ±0.4 180: ±0.6 270: ±1.0 360: ±1.5	10 +0.4 -0.0	6.0	*12.5 14.5 (light profile, deep slot)	Ø 10.0 ±0.15	S12 M12 (*max. M16)	3.0 90 x 90: 5.0
5.0	M10 (max. M16)	Ø 8.5 +0.1 -0.2 (drill max. Ø 16)	15.5 +0.3 -0.0	5.3 +0.3 -0.0	10 +0.4 -0.0	±0.3	50			±0.3	10 +0.4 -0.0	6.0	12.5	Ø 10.0 ±0.15	S12 M12	3.0
6.0	M12 (max. M20)	Ø 10.2 +0.0 -0.2 (drill max. Ø 20)	18.3 +0.3 -0.0	6.6 +0.3 -0.0	12 +0.4 -0.0	±0.3	60			±0.3	10 +0.4 -0.0	6.0	13.0	Ø 10.0 ±0.15	S12 M12	3.0 60 x 90: 5.0

*Strong profile, flat Slot

For more information and advice on the compatibility of your aluminum profile, please contact our sales team.
As before: **FATH** will not be offering a profile system of its own.