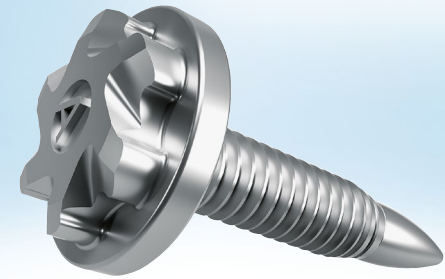




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ARNOLD[®]
BlueFastening Systems



Flowform[®] Plus

The lightweight variant for fastening sheet metals

Customer applications

- ⊕ A joining technology with single side access
- ⊕ Joining multi-material mixes
- ⊕ Joining with adhesive (hybrid joins are possible)
- ⊕ Total component thickness up to 7.5 mm with no pre-drilling (regardless of metal strength)
- ⊕ Joining in cast aluminium and extrusion and sheet steel up to 1000 Mpa.

ARNOLD provides the solution

Flowform[®] Plus
Further developments
to enhance the
flowhole and thread-
rolling screw



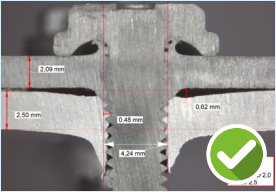
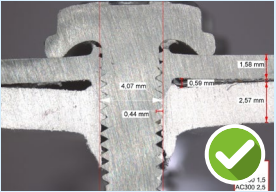
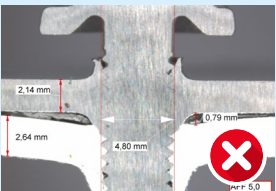

Watch how Flowform[®] Plus works

ARNOLD UMFORMTECHNIK provides an extensive selection of videos and animations. Just scan the QR code above or visit our website and click on our Youtube channel ARNOLD TV.

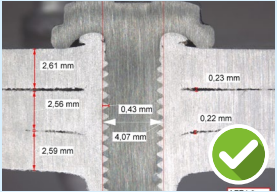
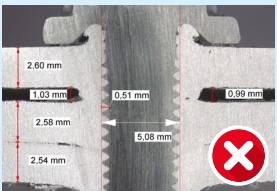
www.arnold-fastening.com

Comparison of Flowform® Plus with Flowform®

→ High-strength material

	<p>HX420LAD 2.0 mm AC300 2.5 mm</p> 	<p>DP800 1.0 mm AC300 2.5 mm</p> 
Flowform® Plus		
		
Flowform		
	<ul style="list-style-type: none"> + Joining force >3,0kN + Thread tapping torque >12 Nm 	<ul style="list-style-type: none"> + Gap forms between the metal sheets

→ Thicker applications

	<p>AC300 2.5 mm AC300 2.5 mm AC300 2.5 mm</p> 
Flowform® Plus	
	
Flowform	
	<ul style="list-style-type: none"> + Joining force >3,0kN

The structure of Flowform® Plus



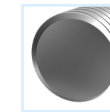
Force application

- + Smaller in size
- + EP12 -> EP10
- + Short location times



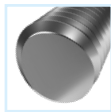
Underhead channelling

Recess to accept rising material as the join is made



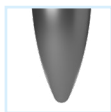
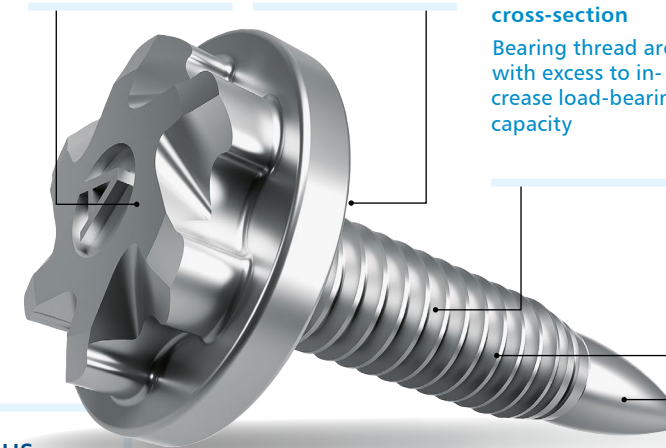
Round shaft cross-section

Bearing thread area with excess to increase load-bearing capacity



Polygonal shaft cross-section

Thread-forming area to form the counter-thread



Polygonal tip cross-section

Solid tip geometry makes it possible to drill into sheet metals

Technical advantages of Flowform® Plus

- + A joining technology with single side access
- + Manual screwdriving possible
- + Fastening process for hybrid sheet metal fastenings and on non predrilled clamping parts
- + Detachable fastening
- + Relatively high assembly pre-load force
- + Joins materials of different types and of the same type in cycle time for join < 4 sec.

Advantages of Flowform® Plus over Flowform®

- + Reduces tapping torque
- + 25% weight reduction
- + Can join sheet steel up to 1000 Mpa strength
- + Expands range of applications
- + Less gap formation



Learn more about Flowform® Plus, innovative sheet metal fastening solutions and possible applications

www.arnold-fastening.com