

# item

## Press Release

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### **New Angle Bracket for sturdier profile joints**

*item has extended the range of fasteners available in Line 8 to include a new high load-bearing variant: for the first time, the new Angle Bracket 8 160x160 St M12 will enable the use of M12 thread size screw fittings in conjunction with Line 8.*

This unlikely new breakthrough has been made possible by the new two-piece Fastener 8 M12. This part employs the principle of the split screw, i.e. the Fastening Element is made in two halves. Each half of the Fastener can be inserted into the Profile Groove 8 separately. Only when the two halves are brought together inside the Profile Groove does the bolt with an M12 external thread take shape and can be tightened up using a hex nut. The two joined-together halves of the Fastening Element are positioned relative to one another before they are screwed together by means of a thrust piece which ensures that they are held in the correct place in the Profile Groove.

As one would expect, the new type of split bolt has been protected as a design patent by item and the patent itself is pending. This solution provides fixing options never before realised for high load-bearing components in conjunction with Line 8 Profiles. The force is applied via large surface areas on the inner edge of the Profile Groove. The specially designed Angle Bracket also allows retrofitting within existing frame structures: the elongated slots in the bracket enables the M12 Fastening Elements to pass through easily where they are then screwed to the Angle Bracket.

In this way, the combination between these components and the new cross-sectional shapes in Line 8 160x160 and 320x160 mm has created a highly efficient load-bearing base framework for fixed portals and machines.



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(Figure: 8-0296c4.tif)



(Figure: 8-0294c4.tif)



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