

39 44 01

Right angle and swivel coupler

Holder/Manufacturer/Supplier

Mon.Zon Development AB, Box 5238, SE-402 24 Göteborg

Product name

Monzon right angle coupler and swivel coupler.

Product description

According to pages 2–4 in this type examination certificate. Technical documentation according to the documentation for SP, no. 4P06701.

Requirements

The Swedish Work Environment Authority's Statute Book AFS 2013:4 Scaffolding, 10 § (SP's certification regulations SPCR 064) and SS-EN 74-1.

Permitted Load

Class B with conditions according to the product description.

Marking

The couplers must have stamped markings with EN 74-1, Monzon, year of manufacture (2 digits) and B (coupler class).

Validity

This type examination certificate is valid until not later than 9th March 2027.

Miscellaneous

SP carries out an annual verification of conformity of the couplers according to section 4 of SPCR 064. This type examination certificate replaces the certificate of the same number dated 18th April 2013 and originally issued on 7th October 2004.

SP Technical Research Institute of Sweden Certification

Lennart Aronsson

Kristina Follin





Type examination certificate no. 394401 issue 6, 2017-03-09

SP Technical Research Institute of Sweden

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The type examination certificate consists of 4 pages, this being page 1.



Appendix

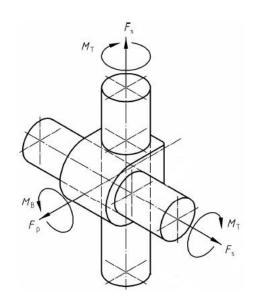
Product description for Monzon right angle and swivel couplers

Design

Monzon couplers are primarily intended for securing constructions of scaffolding tubes with a diameter 48.3 mm. The values for the construction parameters according to SS-EN 74-1 and SS-EN 12810-1, appendix C and the corresponding permitted values for estimates are stated in the following tables. The permitted values are calculated using $\gamma_F = 1.5$ and $\gamma_m = 1,1$.

Load capacity

Construction parameters	Desig- nation		Characteristic value	Permitted value		
Coupler class			В			
Right angle coupler						
Slipping resistance	F _s	(kN)	15.0	9.1		
Bending resistance	M_B	(kNm)	0.8	0.48		
Pull apart resistance	F_p	(kN)	30.0	18.2		
Rotational moment, max	M_T	(kNm)	0.13	0.079		
Swivel coupler						
Slipping resistance	F _s	(kN)	15.0	9.1		







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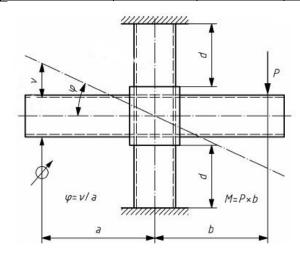
The type examination certificate consists of 4 pages, this being page 2.



Appendix

Designed stiffness values for right angle coupler

Construction parameters	Cruciform bending stiffness	Bending resistance	Cruciform bending stiffness	Cruciform ultimate bending moment
Designation	$c_{\varphi 1}$	M_{B1}	$C_{oldsymbol{arphi}2}$	M_{B2}
	(kNm/rad)	(kNm)	(kNm/rad)	(kNm)
Steel tube	15.0	0.48	6.0	0.8
Aluminium tube	13.0	0.48	5.0	0.8



Construction parameters	Rotational stiffness	Rotational moment
Designation	c_v	M_T
	(kNm/rad)	(kNm)
	7.5	0.13

$\varphi = \Delta_6 / a$ $\varphi = \Delta_6 / a$ $\phi = \Delta_6 / a$

Surface treatment

Hot zinc galvanized 75 μm .





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Appendix

Conditions for use

- 1. The couplers must be installed with a tightening torque of 50 Nm.
- 2. The couplers are intended for installation on steel or aluminium tubes with a diameter of 48.3 mm.

Instruction manual

An instruction manual must be provided with the couplers when supplied to the user.

Application

The type examination certificate is valid for couplers made and supplied by the manufacturer as stated on the certificate and of which materials, dimensions and design correspond with the type examined example.

This is a translation from the Swedish original document. In the event of any dispute as to the content of the document, the Swedish text shall take precedence.





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