



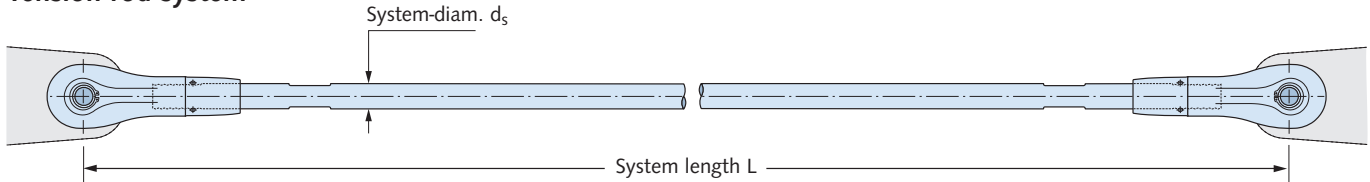
CHECKLIST  
**DETAN Tension rod system**

Product field:  
**DETAN Tension rod systems**

Form No.:  
**CHK-F-DT-001-E**

Customer: \_\_\_\_\_ Contact name: \_\_\_\_\_  
 Customer address: \_\_\_\_\_  
 Tel.: \_\_\_\_\_ Fax: \_\_\_\_\_ E-mail: \_\_\_\_\_  
 Project: \_\_\_\_\_ Project address: \_\_\_\_\_  
 Date: \_\_\_\_\_ Customer no.: \_\_\_\_\_  Enquiry  Estimate  Order

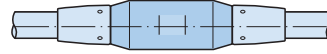
**Tension rod system**



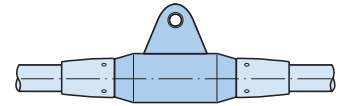
**Design variants:**



without coupler



with coupler



with coupler with lug

**Choice of material:**

**DETAN-S (Steel) – FV (hot-dip galvanized)**  
ETA-05/0207; EN1993

**DETAN-S (Steel) – WB (mill finish)**  
ETA-05/0207; EN1993

Item	Quantity	$d_s$ [mm]	$Z_{Ed,max}$ <sup>②</sup> [kN]	L [mm]	Coupler		Coupler with lug		Material choice	
					Quantity ①	Quantity ①	mill finish	hot-dip galvanized		
Example	3	30		5600	x	2				x

① Quantity of couplers in one system length  
 ② maximum tension load required if diameter is unknown

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 Please contact us for an estimate.



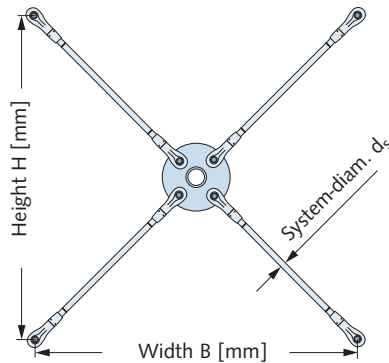
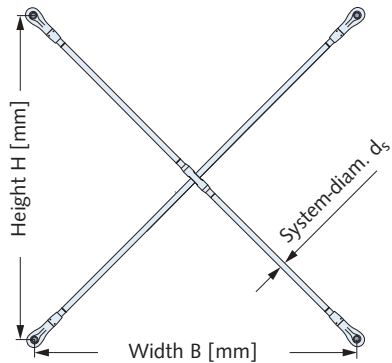
CHECKLIST  
DETAN Cross bracings

Product field:  
DETAN Tension rod systems

Form No.:  
CHK-F-DT-002-E

Customer: \_\_\_\_\_ Contact name: \_\_\_\_\_  
Customer address: \_\_\_\_\_  
Tel.: \_\_\_\_\_ Fax: \_\_\_\_\_ E-mail: \_\_\_\_\_  
Project: \_\_\_\_\_ Project address: \_\_\_\_\_  
Date: \_\_\_\_\_ Customer no.: \_\_\_\_\_  Enquiry  Estimate  Order

**Cross bracing**



**Choice of material:**

DETAN-S (Steel) – FV (hot-dip galvanized)  
ETA-05/0207; EN1993

DETAN-S (Steel) – WB (mill finish)  
ETA-05/0207; EN1993

with cross coupler ②

with anchor disc ②

Item	Quantity	$d_s$ [mm]	$Z_{Ed,max}$ ① [kN]	B [mm]	H [mm]			Material choice	
								mill finish	hot-dip galvanized
Example	3	30		5600	4200	x			x

① maximum tension load required if diameter is unknown  
② smallest installation angle  $\alpha = 40^\circ$

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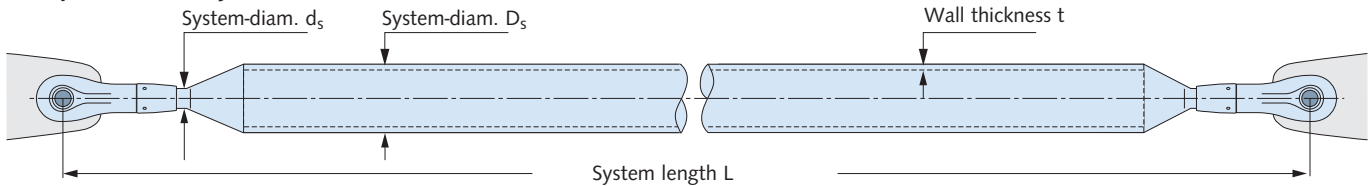
CHECKLIST  
**DETAN Compression rod system**

Product field:  
**DETAN Tension rod systems**

Form No.:  
**CHK-F-DT-003-E**

Customer: \_\_\_\_\_ Contact name: \_\_\_\_\_  
 Customer address: \_\_\_\_\_  
 Tel.: \_\_\_\_\_ Fax: \_\_\_\_\_ E-mail: \_\_\_\_\_  
 Project: \_\_\_\_\_ Project address: \_\_\_\_\_  
 Date: \_\_\_\_\_ Customer no.: \_\_\_\_\_  Enquiry  Estimate  Order

**Compression rod system**



**Choice of material:**

**DETAN-S – FV (hot-dip galvanized)**  
ETA-05/0207; EN1993

**DETAN-S – WB (mill finish)**  
ETA-05/0207; EN1993

Item	Qty	$d_s$ [mm]	$D_s$ ③ [mm]	$t$ ③ [mm]	$N_{Ed,max}$ ① [kN]	$Z_{Ed,max}$ ② [kN]	L [mm]	Material choice	
								mill finish	hot-dip galvanized
<i>Example</i>	5	16	54	2.6			1250		x

- ① for unknown geometry maximum compression stress is required
- ② for unknown geometry maximum tension stress is required (only if present)
- ③ shorter delivery periods if standard lengths from table below will be selected (see also ⓘ Note):

**Note:** DETAN Compression rods are also available with other diameters as shown in the table.

Standard cross sections [mm]; only for steel S355							
Tube diameter	42.4	54.0	60.3	76.1	88.9	114.3	139.7
Wall thickness	2.6	2.6	2.9	2.9	3.2	3.6	4.0

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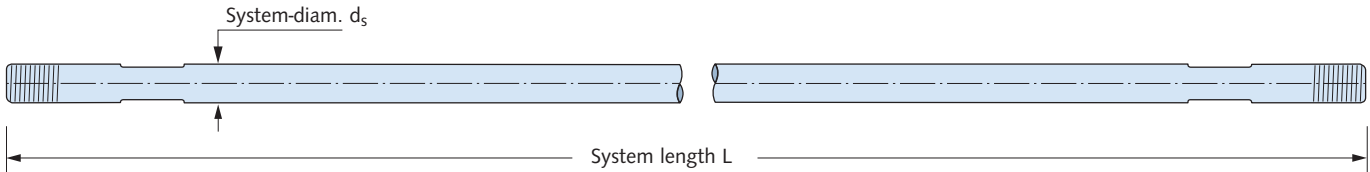
## CHECKLIST DETAN Tension rod special design

Product field:  
**DETAN Tension rod systems**

Form No.:  
**CHK-F-DT-004-E**

Customer: \_\_\_\_\_ Contact name: \_\_\_\_\_  
 Customer address: \_\_\_\_\_  
 Tel.: \_\_\_\_\_ Fax: \_\_\_\_\_ E-mail: \_\_\_\_\_  
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 Date: \_\_\_\_\_ Customer no.: \_\_\_\_\_  Enquiry  Estimate  Order

### Special design rod ③



### Choice of material:

**DETAN-S – FV (hot-dip galvanized)**  
ETA-05/0207; EN1993

**DETAN-S – WB (mill finish)**  
ETA-05/0207; EN1993

Item	Quantity	$d_s$ ③ [mm]	L [mm]	Thread design incl. statement ①② of thread-length [mm]			fork connection single ended with thread direction ③		Choice of material	
				r/r	l/l	r/l	r	l	mill finish	hot-dip galvanized
Example	3	30	2500		x			x		x
					125	80				

① r/r = right-hand/right-hand - thread; l/l = left-hand/left-hand - thread;  
 r/l = right-hand/left-hand - thread  
 ② longer threads than 195 mm on request  
 ③ not part of European Technical Assessment

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