HALFEN
A **CRH** COMPANY

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

System-diam. d_s

System length L

Design variants:

without coupler   with coupler   with coupler with lug

Choice of material:

DETAN-S (Steel) – FV (hot-dip galvanized) – S355
acc. to European Technical Assessment
ETA-05/0207; EN1993

DETAN-S (Steel) – WB (mill finish) – S355
acc. to European Technical Assessment
ETA-05/0207; EN1993

DETAN-E (Stainless steel)
acc. to European Technical Assessment
ETA-11/0311; EN1993

Item	Qty	d_s [mm]	$Z_{Ed,max}$ ② [kN]	L [mm]	(without coupler)	(with coupler) Quantity ①	(with coupler with lug) Quantity ①	Material choice WB	FV	E
Example	*3*	*30*		*5600*		*x*	*2*		*x*	

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

Please contact us for an estimate. Send this completed PDF form sheet to HALFEN per E-mail to:
es.det@halfen.com.

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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

Height H [mm]   System-diam. d_S Width B [mm]

with cross coupler ②

Height H [mm]   System-diam. d_S Width B [mm]

with anchor disc ②

Choice of material:

DETAN-S (Steel) – FV (hot-dip galvanized) – S355
acc. to European Technical Assessment
ETA-05/0207

DETAN-S (Steel) – WB (mill finish) – S355
acc. to European Technical Assessment
ETA-05/0207

DETAN-E (Stainless steel) – FK235
acc. to European Technical Assessment
ETA-11/0311

Item	Qty	d_S [mm]	$Z_{Ed,max}$ ① [kN]	B [mm]	H [mm]			Material choice		
								WB	FV	E
Example	*3*	*30*		*5600*	*4200*	*x*			*x*	

① maximum tension load required if diameter is unknown
② smallest installation angle α = 40°

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es.det@halfen.com.

HALFEN
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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

System-diam. d_s System-diam. D_s Wall thickness t

System length L

Choice of material:

DETAN-S – FV (hot-dip galvanized) – S355
ETA-05/0207; EN1993

DETAN-S – WB (mill finish) – S355
ETA-05/0207; EN1993

DETAN-E (Stainless steel) – FK235
ETA-11/0311; 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		
								WB	FV	E
Example	*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, but with longer delivery times.

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es.det@halfen.com.

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

HALFEN
A **CRH** COMPANY

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: _____

Project: _____ Project address: _____

Date: _____ Customer no.: _____ ☐ Enquiry ☐ Estimate ☐ Order

Special design rod ③

System-diam. d_s

System length L

Choice of material:

DETAN-S – FV (hot-dip galvanized) – S355	**DETAN-S – WB (mill finish) – S355**	**DETAN-E (Stainless steel) – FK235**
ETA-05/0207; EN1993	ETA-05/0207; EN1993	ETA-11/0311; EN1993

Item	No.	d_s③ [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	WB	FV	E
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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es.det@halfen.com.