

Halfen Detan Tension rod system

Basic system without couplers

Customer:		Contact name:			
Customer address:					
Tel.:	Fax:	Email:			
Project:		Project address:			
Date:	Customer no.:		Enquiry 🗍	Estimate	Order 🗌
	Halfen Detan-S (steel):				
	System-ø d _s				
	<u> </u>		·—·—·—	•	
Tension rod system F	Halfen Detan-D (stainless)):			
	System-ø d _s				
•		System length L			-
Chains of material: Half	ian Dotan S (ataal) EV (bot dia	Halfon Dotan S (stool)		Jalfan Datan D	(otoinloss)

Choice of material:

Halfen Detan-S (steel) – FV (hot-dip galvanized) ETA-05/0207; EN1993

Halfen Detan-S (steel) – WB (mill finish) ETA-05/0207; EN1993 ETA-23/0276

Halfen Detan-D (stainless)

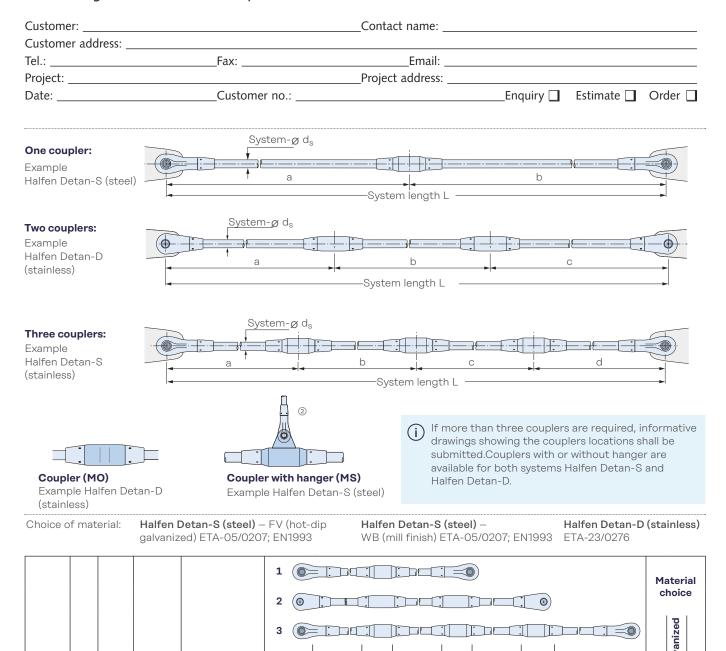
		- A	7 0	System length		Material choice	
Item.	Qty	d _s [mm]	Z _{Ed,max} ① [kN]	L [mm]	mill finish	hot-dip galvanized	stainless
Example	3	30		5600		X	

① maximum tension load required if diameter is unknown



Halfen Detan Tension rod system

Basic system with couplers



Item.	Qty	d _s [mm]	Z _{Edrmax} ① [kN]	System length L [mm]	Qty of cou- plers [max.3]	Length a [mm]	MO or MS	Length b [mm]	MO or MS	Length c [mm]	MO or MS	Length d [mm]	mill finish	hot-dip galv	stainless
Example	3	30		5600										X	
	i –	i e	i	İ		i e	i e	<u> </u>			i e				$\overline{}$

1) maximum tension load required if diameter is unknown

② suspended systems at couplers with hanger can be recorded in our order form: basic system without couplers



Halfen Detan Cross bracings

Double-symmetric fields (rectangular or square)

	Cc	ntact name:			
Fax:		Email:			
	Pro	oject address:			
			. , _		· 🔲
A STATE OF SECURITY OF SECURIT	Height [mm] Width B	[mm]	Halfen Detan- FV (hot-dip gal ETA-05/0207; Halfen Detan- ETA-05/0207; Halfen Detan-	S (steel) — vanized) EN1993 S (steel) — WB (mill fir EN1993	nish)
	with anchor disc ②		ETA-23/02/6		
	Fax:Custom	Customer no.: Width B	Fax:	Fax:	Fax:

							Ma	aterial choi	ice
Item	Qty	d _s [mm]	Z _{Ed,ma}	B [mm]	H [mm]		mill finish	hot-dip galva- nized	stain- less
Example	3	30		5600	4200	X		X	

① maximum tension load required if diameter is unknown

② smallest installation angle α = 40°



Halfen Detan Cross bracings

Asymmetric fields (e.g. trapezoidal or diamond-shaped)

Customer:			Contact r	name:				
Customer address:								
Tel.:	Fax:			Email:				
Project:			Project ac	ddress:				
Date:						—		
Cross bracing								
3 3 5 15	Bendin Li	Storen Protection	*		Seption Sol	Halfen Det ETA-05/02	tan-S (steel) — p galvanized) 207; EN1993 tan-S (steel) — 207; EN1993 tan-D (stainles	WB (mill finish
with cross coupler @		with anchor disc	2)					
							Material	choice

											Ma	aterial choi	ice
Item	Qty	d _s [mm]	Z _{Ed,max} ① [kN]	System length L1 [mm]	System length L2 [mm]	Length a [mm]	Length b [mm]	Length c [mm]	Length d [mm]	Opening angle ② [°]	mill finish	hot-dip galva- nized	stain- less
Example	3	30		5600	4200	X						X	
Plausihi	lity che	ock: 1 = 9	+ b and l 2 = 0	. + d									-

① maximum tension load required if diameter is unknown

② smallest installation angle α = 40°



Halfen Detan Compression rod system

Customer:		Contac	ct name:			
Customer address	s:					
Tel.:	Fax:		Email:			
Project:		Project	address:			
Date:	Customer no.:			Enquiry 🔲	Estimate	Order 🗌
Compression rod	system Halfen Detan-S (steel):					
	System-ø d _s	V				
Compression rod	system Halfen Detan-D (stainless)	:				
S	ystem-ø d _s		Wall thick			
		System lengt				
Choice of material	: Halfen Detan-S (steel) – FV (h				lalfan Datan-D	(stainless)
	. raivenized) FTA_05/0207: FN10		, ,			. ,

Choice of material:	Halfen Detan-S (steel) - FV (hot-di
	galvanized) ETA-05/0207; EN1993

								М	aterial choi	ce
Item	Qty	d _s [mm]	D _s ③ [mm]	t	N _{Ed,max} ① [kN]	Z _{Ed,max}	System length L [mm]	mill finish	hot-dip galvanized	stain- less
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 @ note):

Standard cross sections [mm]; only for steel \$355							
System-Ø D _s	42	54	60	76	89	114	139
Wall thickness 2.6 2.6 2.9 2.9 3.2 3.6 4.0							

_	_	`
- /		١.
- (ш)
١.	ш	

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



Halfen Detan Tension rod special design

Customer:		Contact name:			
Tel.:	Fax:	Email:			
Project:		Project address:			
Date:	Customer no.:		Enquiry 🔲	Estimate	Order 🗌
Special design rod	3				
	System-øds				
-	Rod I	ength L ——————			-
Choice of material:	Halfen Detan-S (steel) – FV (hot-dip galvanized) ETA-05/0207; EN1993	Halfen Detan-S (steel) WB (mill finish) ETA-05		Halfen Detan-D ETA-23/0276	(stainless)

Item	Qty	d _s ③ [mm]	System length L [mm]	Thread design incl. indication ① ② of thread-length [mm]				Fork connection single ended with thread direction (9)			Material choice			
				r/ı	r	1/	I	r/	′ I	r	ı	mill finish	hot-dip galvanized	stainless
Exam-	3	30	2500	T		X			1		X		X	
ple		00	2000			125	80				^			
							Γ		1	_				
							Г		1	_				
									1	_				
									l	_				
				ı					I	_				
				Т					1					

① r/r = right-hand/right-hand - thread; |/| = left-hand/left-hand - thread; r/l = right-hand/left-hand - thread

② thread lengths up to 195 mm possible

③ not part of European Technical Assessment