

## **Declaration of Performance**

No. 003

1. Product type:

Type A and Type B Girder Clamps

2. Type, batch or serial no.:

A10/A12/A16/A20/A24, B10/B12/B16/B20/B24

Batch no. See product packaging

3. Intended use:

A girder clamp used for the load bearing connection of girders, channels and columns made of structural steel.

4. Manufacturer:

Lindapter International

Lindsay House, Brackenbeck Road

Bradford, West Yorkshire BD7 2NF

5. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2):

NA

6. System of assessment and Verification of constancy of performance:

System 2+

7. In case of the declaration of performance concerning a construction product covered by a harmonised standard:

NA

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued, technical assessment body:

Technicky a zkusebni ustav stavebni Praha, s.p. Prosecka 811/76a

190 00 Prague Czech Republic

issued:

ETA 20/0918

on the basis of:

EAD No. 330080-00-0602

performed:

Element Materials Technology Rotterdam B.V.,

Zekeringstraat 33, 1014 BV, Amsterdam, Netherlands has performed the initial inspection of the factory and the factory

production control and performs the continuous surveillance, assessment and approval of the factory

production control. Notified Body No. 2812

under system:

2+

and issued the Factory
Production Control certificate
number:

2812-CPR-1140

## 9. Declared performance

Essential Characteristic		Harmonised technical specification					
Mechanical Resistance	Character	EAD No. 330080-00- 0602					
	Product	Bolt	Т	ension	14	Slip	ETA - 20/0918
	property					sistance	Section 3.1
		class		4 bolts)		bolts)	and Annex 14
	9			R <sub>K</sub> (kN)		R <sub>K</sub> (kN)	
	M10	8.8		11.3	- 3,		
						2.4	
	M12	8.8		34.1		3.4	
	M16	8.8		63.6		6.4	
	M20	8.8		99.2		9.9	
	M24	8.8		142.9		14.3	,
	Allowable dynamic lo	oading					
	Partial	safety					
	factors:		A				
	γFf = 1.0 and γMf = 1.0		For tension (k=0)				
	Numbers of cycles		M12	M16	M20	M24	
			kN	kN	kN	kN	
	from	to					
		1 x 10 <sup>4</sup>	27.281)	50.88 <sup>1)</sup>	79.36 <sup>1)</sup>	114.32 <sup>1)</sup>	В
	1 x 10 <sup>4</sup>	2 x 10 <sup>4</sup>	24.65	45.91	71.64	103.22	
	2 x 10 <sup>4</sup>	6 x 10 <sup>4</sup>	17.09	31.83	49.67	71.57	
	6 x 10 <sup>4</sup>	2 x 10 <sup>5</sup>	11.44	21.31	33.25	47.91	
	2 x 10 <sup>5</sup>	6 x 10 <sup>5</sup>	7.93	14.78	23.06	33.22	
	6 x 10 <sup>5</sup>	2 x 10 <sup>6</sup>	5.31	9.89	15.44	22.24	
	2 x 10 <sup>6</sup>	5 x 10 <sup>6</sup>	3.91	7.29	11.37	16.39	
	5 x 10 <sup>6</sup>	$1 \times 10^7$	3.41	6.34	9.90	14.26	
	$1 \times 10^7$	$2 \times 10^7$	2.97	5.52	8.62	12.42	
		1 x 10 <sup>8</sup>	2.15		6.25		
	Greater than	1 X 10°	2.15	4.00	0.25	9.00	
		sign value	of tensior	resistanc	e Ft,Rd for	static load	
	Allowable	maximun	n forces f	or alterna	ting loads	(k=-1.0)	
	Partial		х	×			
	factors:		Α				
	$\gamma$ Ff = 1.0 and $\gamma$ Mf		For tension (k=-1.0)				
	= 1.0						
	Numbers of		M12 M16		M20	M20 M24	
	cycles		kN	kN	kN	kN	
	from	to					
		1 x 10 <sup>4</sup>	27.281)	50.881)	79.36 <sup>1)</sup>	114.32 <sup>1)</sup>	
	1 x 10 <sup>4</sup>	2 x 10 <sup>4</sup>	12.33	22.95	35.82	51.61	
	2 x 10 <sup>4</sup>	6 x 10 <sup>4</sup>	8.55	15.92	24.84	35.79	
	6 x 10 <sup>4</sup>	2 x 10 <sup>5</sup>	5.72	10.65	16.63	23.96	
	2 x 10 <sup>5</sup>	6 x 10 <sup>5</sup>	3.97	7.39	11.53	16.61	
	2 X 10°	O X IO	3.97	1.39	11.00	10.01	

6 x 10<sup>5</sup>

2 x 10<sup>6</sup>

 $5 \times 10^{6}$ 

 $1 \times 10^{7}$ 

Greater

2 x 10<sup>6</sup>

5 x 10<sup>6</sup>

 $1 \times 10^{7}$ 

 $2 \times 10^{7}$ 

 $1 \times 10^{8}$ 

2.66

1.96

1.70

1.48

1.07

4.95

3.64

3.17

2.76

2.00

1) Design value of tension resistance Ft,Rd for static load

7.72

5.69

4.95

4.31

3.12

11.12

8.19

7.13

6.21

4.50

Dimensional Stability	The tolerand	EAD No. 330080-00- 0602 ETA – 20/0918 Annex 12				
Reaction to fire	A1 (Steel)	EN 13501-1				
Durability		Corrosivity Class C1 C2 C3	Galvanised Steel  More than 50 years  More than 50 years  More than 20 years	Electro - plated steel More than 20 years More than 5 years Not suitable		ISO 9223
Product identification	Each production	EAD No. 330080-00- 0602 ETA – 20/0918 Annex 11				

**10.** The performance of the product identified above is in conformity with the declared performance identified in the point 9.

Signed for on behalf of Lindapter International by:

Bradford UK, 14th December 2020

Michael Norris Managing Director Place and date of issue