

IG TITAN SYSTEM

Masonry Support Systems Ltd hereby declares that the following standard masonry support system, TITAN, conforms to the provisions of Annex ZA, EN 1090-1:2009 + A1:2011.

Product Identification: IG TITAN System (TITAN 4, TITAN 6, TITAN 8, TITAN 10, TITAN 12, TITAN 14)

Intended Use: TITAN is a structural stainless steel construction product intended for use within cavity wall construction in steel, concrete or timber frame buildings. The components can be made from cold formed or hot rolled plate.

Manufacturer: IG Masonry Support, Ryder Close, Cadley Hill Industrial Estate, Swadlincote, South Derbyshire, DE11 9EU

System of Assessment and Verification: System 2+

Harmonised Standard: EN 1090-1: 2009 + A1:2011

IG TITAN 4

Fixing Type	Min. Top Edge	Fixing Point	Min Slab	Emb. Depth	Cr./Uncr.	Br. Centres	Shelf Length	Shelf Thickness	Maximum Unfactored load [kN/m] per cavity widths [mm]														
	(mm)	(mm)	(mm)	(mm)	-	(mm)	(mm)	(mm)	70	80	90	100	110	120	130	140	150	160	170	180	190	200	
Fischer - FAZ II 12/20	75	130	225	80	Cracked	800	1590	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Fischer - FAZ II 12/30	75	130	225	90	Cracked	800	1590	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Fischer - FAZ II 12/50	75	130	225	110	Cracked	800	1590	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Fischer - FBN II 12/20	75	130	225	65	Uncracked	800	1590	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
SET SCREW M12	-	130	-	-	-	800	1590	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Blindbolt - HD Bolt	-	130	-	-	-	800	1590	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Fischer - FAZ II 12/20	75	160	250	80	Cracked	800	1590	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Fischer - FAZ II 12/30	75	160	250	90	Cracked	800	1590	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Fischer - FAZ II 12/50	75	160	250	110	Cracked	800	1590	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Fischer - FBN II 12/20	75	160	250	65	Uncracked	800	1590	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
SET SCREW M12	-	160	250	-	-	800	1590	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Blindbolt - HD Bolt	-	160	250	-	-	800	1590	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4

IG TITAN 6

Fixing Type	Min. Top Edge	Fixing Point	Min Slab	Emb. Depth	Cr./Uncr.	Br. Centres	Shelf Length	Shelf Thickness	Maximum Unfactored load [kN/m] per cavity widths [mm]														
	(mm)	(mm)	(mm)	(mm)	-	(mm)	(mm)	(mm)	70	80	90	100	110	120	130	140	150	160	170	180	190	200	
Fischer - FAZ II 12/20	75	130	225	80	Cracked	700	1390	4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Fischer - FAZ II 12/30	75	130	225	90	Cracked	700	1390	4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Fischer - FAZ II 12/50	75	130	225	110	Cracked	700	1390	4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Fischer - FBN II 12/20	75	130	225	65	Uncracked	700	1390	4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
SET SCREW M12	-	130	-	-	-	700	1390	4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Blindbolt - HD Bolt	-	130	-	-	-	700	1390	4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Fischer - FAZ II 12/20	75	160	250	80	Cracked	700	1390	4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Fischer - FAZ II 12/30	75	160	250	90	Cracked	700	1390	4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Fischer - FAZ II 12/50	75	160	250	110	Cracked	700	1390	4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Fischer - FBN II 12/20	75	160	250	65	Uncracked	700	1390	4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
SET SCREW M12	-	160	250	-	-	700	1390	4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Blindbolt - HD Bolt	-	160	250	-	-	700	1390	4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6

IG TITAN 8

Fixing Type	Min. Top Edge	Fixing Point	Min Slab	Emb. Depth	Cr./Uncr.	Br. Centres	Shelf Length	Shelf Thickness	Maximum Unfactored load [kN/m] per cavity widths [mm]															
	(mm)	(mm)	(mm)	(mm)	-	(mm)	(mm)	(mm)	70	80	90	100	110	120	130	140	150	160	170	180	190	200		
Fischer - FAZ II 12/20	75	130	225	80	Cracked	600	1190	4	8	8	8	8	8	8	8	8	8	8	8	8	8	7.9	7.6	7.4
Fischer - FAZ II 12/30	75	130	225	90	Cracked	600	1190	4	8	8	8	8	8	8	8	8	8	8	8	8	8	7.9	7.7	7.5
Fischer - FAZ II 12/50	75	130	225	110	Cracked	600	1190	4	8	8	8	8	8	8	8	8	8	8	8	8	8	8	7.8	7.6
Fischer - FBN II 12/20	75	130	225	65	Uncracked	600	1190	4	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
SET SCREW M12	-	130	-	-	-	600	1190	4	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Blindbolt - HD Bolt	-	130	-	-	-	600	1190	4	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Fischer - FAZ II 12/20	75	160	250	80	Cracked	600	1190	4	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Fischer - FAZ II 12/30	75	160	250	90	Cracked	600	1190	4	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Fischer - FAZ II 12/50	75	160	250	110	Cracked	600	1190	4	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Fischer - FBN II 12/20	75	160	250	65	Uncracked	600	1190	4	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
SET SCREW M12	-	160	250	-	-	600	1190	4	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Blindbolt - HD Bolt	-	160	250	-	-	600	1190	4	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8

IG TITAN 10

Fixing Type	Min. Top Edge	Fixing Point	Min Slab	Emb. Depth	Cr./Uncr.	Br. Centres	Shelf Length	Shelf Thickness	Maximum Unfactored load [kN/m] per cavity widths [mm]														
	(mm)	(mm)	(mm)	(mm)	-	(mm)	(mm)	(mm)	70	80	90	100	110	120	130	140	150	160	170	180	190	200	
Fischer - FAZ II 12/20	75	130	225	80	Cracked	500	990	4	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Fischer - FAZ II 12/30	75	130	225	90	Cracked	500	990	4	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Fischer - FAZ II 12/50	75	130	225	110	Cracked	500	990	4	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Fischer - FBN II 12/20	75	130	225	65	Uncracked	500	990	4	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
SET SCREW M12	-	130	-	-	-	500	990	4	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Blindbolt - HD Bolt	-	130	-	-	-	500	990	4	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Fischer - FAZ II 12/20	75	160	250	80	Cracked	500	990	4	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Fischer - FAZ II 12/30	75	160	250	90	Cracked	500	990	4	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Fischer - FAZ II 12/50	75	160	250	110	Cracked	500	990	4	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Fischer - FBN II 12/20	75	160	250	65	Uncracked	500	990	4	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
SET SCREW M12	-	160	250	-	-	500	990	4	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Blindbolt - HD Bolt	-	160	250	-	-	500	990	4	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10

IG TITAN 12

Fixing Type	Min. Top Edge	Fixing Point	Min Slab	Emb. Depth	Cr./Uncr.	Br. Centres	Shelf Length	Shelf Thickness	Maximum Unfactored load [kN/m] per cavity widths [mm]														
	(mm)	(mm)	(mm)	(mm)	-	(mm)	(mm)	(mm)	70	80	90	100	110	120	130	140	150	160	170	180	190	200	
Fischer - FAZ II 12/20	75	130	225	80	Cracked	500	990	5	12	12	12	12	11.8	11.4	11	10.6	10.4	10	9.7	9.4	9.2	8.9	
Fischer - FAZ II 12/30	75	130	225	90	Cracked	500	990	5	12	12	12	12	11.9	11.5	11.1	10.8	10.4	10.1	9.7	9.5	9.2	9	
Fischer - FAZ II 12/50	75	130	225	110	Cracked	500	990	5	12	12	12	12	12	11.7	11.3	10.9	10.6	10.2	9.7	9.6	9.3	9.1	
Fischer - FBN II 12/20	75	130	225	65	Uncracked	500	990	5	12	12	12	12	12	12	12	12	12	12	12	12	12	12	11.7
SET SCREW M12	-	130	-	-	-	500	990	5	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Blindbolt - HD Bolt	-	130	-	-	-	500	990	5	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Fischer - FAZ II 12/20	75	160	250	80	Cracked	500	990	5	12	12	12	12	12	12	12	12	12	12	12	12	12	12	11.7
Fischer - FAZ II 12/30	75	160	250	90	Cracked	500	990	5	12	12	12	12	12	12	12	12	12	12	12	12	12	12	11.6
Fischer - FAZ II 12/50	75	160	250	110	Cracked	500	990	5	12	12	12	12	12	12	12	12	12	12	12	12	12	12	11.7
Fischer - FBN II 12/20	75	160	250	65	Uncracked	500	990	5	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
SET SCREW M12	-	160	250	-	-	500	990	5	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Blindbolt - HD Bolt	-	160	250	-	-	500	990	5	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12

IG TITAN 14

Fixing Type	Min. Top Edge	Fixing Point	Min Slab	Emb. Depth	Cr./Uncr.	Br. Centres	Shelf Length	Shelf Thickness	Maximum Unfactored load [kN/m] per cavity widths [mm]														
	(mm)	(mm)	(mm)	(mm)	-	(mm)	(mm)	(mm)	70	80	90	100	110	120	130	140	150	160	170	180	190	200	
Fischer - FAZ II 12/20	75	130	225	80	Cracked	400	790	5	14	14	14	14	14	14	13.8	13.4	13	12.6	12.2	11.8	11.5	11.2	
Fischer - FAZ II 12/30	75	130	225	90	Cracked	400	790	4	14	14	14	14	14	14	13.8	13.4	13	12.5	12.2	11.8	11.5	11.2	
Fischer - FAZ II 12/50	75	130	225	110	Cracked	400	790	5	14	14	14	14	14	14	14	13.5	13.2	12.8	12.4	12	11.6	11.3	
Fischer - FBN II 12/20	75	130	225	65	Uncracked	400	790	5	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
SET SCREW M12	-	130	-	-	-	400	790	5	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
Blindbolt - HD Bolt	-	130	-	-	-	400	790	5	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
Fischer - FAZ II 12/20	75	160	250	80	Cracked	400	790	5	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
Fischer - FAZ II 12/30	75	160	250	90	Cracked	400	790	5	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
Fischer - FAZ II 12/50	75	160	250	110	Cracked	400	790	5	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
Fischer - FBN II 12/20	75	160	250	65	Uncracked	400	790	5	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
SET SCREW M12	-	160	250	-	-	400	790	5	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
Blindbolt - HD Bolt	-	160	250	-	-	400	790	5	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14

Note: Tables are based on RC grade C30/37. Tables are to be considered for straight runs only and standard 2mm shimming. Higher capacity can be achieved in some conditions by increasing the fixing point, please contact IG Masonry Support for higher capacity, corner arrangements, limited lateral edge distances or special requests.

Notified Body:

Eurofins Expert Services Oy
Kivimiehentie 4
FI-02150 Espoo
Finland

Notified Body Number:

0809

FPC Certification Number:

0809-CPR-21004491

Declaration Method:

1 and 3a according to table A.1:
EN 1090-1:2009 + A1:2011

Declared Performances:

Load bearing capacity as shown
in tables

Tolerances on Dimensions:

According to EN 1090-2

Weldability:

Stainless Steel Graded 304 and
316, according to EN 10088-2

Fracture Toughness:

Minimum 60J at 20DegC

Reaction to Fire:

Classified: Class A1

Design:

According to EN 1993 (EC3)

Manufacturing:

According to EN 1090-2:
Execution Class 2 (EXC2)

Durability:

Uncoated: NPD

Fatigue Strength:

NPD

Release of Cadmium:

NPD

Emission of Radioactivity:

NPD

Load Bearing Capacity:

As shown in tables

The performance of the product identified above is in conformity with the set of declared performances. This declaration is issued in accordance with Regulation (EU) No 305/2011 under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:



Andy Neal

Managing Director of IG Masonry Support

Signed on 29/08/2024 at
IG Masonry Support, Cadley Hill Industrial Estate, Ryder Close,
Swadlincote, South Derbyshire, DE11 9EU

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