

TÜV DECLARATION OF CONFORMITY

We, the undersigned, Beglec NV, located 't Hofveld 2C, B-1702 Groot-Bijgaarden, Belgium, certify and declare under our sole responsibility that the following apparatus :

Brand : *Briteq®*
Product Group : *BT-TRUSS*
Model n° : *BT-TRUSS TRIO 29*

Was tested and approved by TÜV Nord, based on the following specifications applied :

- DIN EN 1990: 2010-12 (EUROCODE 0)
- DIN EN 1991-1-1: 2010-12 (EUROCODE 1)
- DIN EN 1993-1-1: 2010-12 (EUROCODE 3)
- DIN EN 1999-1-1: 2014-03 (EUROCODE 9)
- DIN EN 1090-1: 2012
- DIN EN 1090-2: 2011
- DIN EN 1090-3: 2008
- DIN EN 13814: 2004



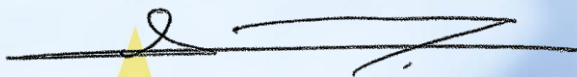
Tests performed by:

- **Testlab :** *TÜV NORD CERT GmbH*
- **Testreport Number :** *3517 2371 / 15780 454922-04*
- **Registered n° :** *44 780 12044008*
- **Validity until :** *2021-02-23*

Full test reports and other relevant information remain at the disposal of the Control Agencies at our head office:
't Hofveld 2c - B1702 Groot-Bijgaarden, Belgium.

Groot-Bijgaarden, 19 July 2016

VOOR BEGLEC NV



Luc De Bauw
Afgevaardigd Bestuurder

Attachments:

- **Technical description**
- **Max Inner forces**
- **Load Table**

Technical description

Connection cross section: triangle with a flange length of 239,50mm related to the centerlines.
Element lengths: 0,19m, 0,5m to 5,0m (increments of 0,5m)
Main tubes: Ø 51 x 2mm EN AW 6082 T6
Braces: Ø 16 x 2mm EN AW 6082 T6
Female receiver: Ø 49,5 x 50mm EN AW 6082 T6
Conical connecting element: Ø 27,84 / 35 x 88mm EN AW 2017 T4
Conical safety bolt: Ø 11,75 / 9,4 x 67mm C45

Max. inner forces (upright)

Bending moment: $M_{y,R,d} = 7,427 \text{ kNm}$
 $M_{z,R,d} = 8,570 \text{ kNm}$
Shear Force: $V_{y,R,d} = 9,469 \text{ kN}$
 $V_{z,R,d} = 16,403 \text{ kN}$
Normal Force: $N_{R,d} = 35,709 \text{ kN (per main tube)}$

PS: calculated values with the consideration of the maximal stress resultant.



Load table

Span m	UDL Uniformly Distributed load		CPL Centre Point load		TPL Third Point load		QPL Quarter Point load		FPL 5th Point load	
	kg/m	Deflection (mm)	kg	Deflection (mm)	kg (2x)	Deflection (mm)	kg (3x)	Deflection (mm)	kg (4x)	Deflection (mm)
2	783,1	2,5	1023,9	2,6	767,9	3,4	511,9	3,1	391,6	3,1
3	453,0	7,4	679,5	5,9	509,7	7,6	339,8	7,1	283,1	7,5
4	253,2	13,2	506,4	10,6	379,8	13,5	253,2	12,5	211,0	13,3
5	160,7	20,6	401,8	16,6	301,4	21,1	200,9	19,6	167,4	20,8
6	110,5	29,8	331,5	24,0	248,6	30,4	165,8	28,3	138,1	30,0
7	80,2	40,6	280,7	32,8	210,6	41,4	140,4	38,6	117,0	40,9
8	60,6	53,0	242,2	43,1	181,7	54,2	121,1	50,6	100,9	53,4
9	47,1	67,2	211,8	54,9	158,9	68,6	105,9	64,2	88,3	67,7
10	37,4	83,2	187,2	68,2	140,4	84,8	93,6	79,4	78,0	83,8
11	30,3	100,9	166,6	83,1	125,0	102,8	83,3	96,4	69,4	101,6
12	24,9	120,3	149,2	99,6	111,9	122,6	74,6	115,1	62,2	121,1
13	20,7	141,5	134,2	117,9	100,7	144,2	67,1	135,6	55,9	142,5
14	17,3	164,6	121,1	137,9	90,8	167,5	60,6	157,9	50,5	165,6

High values of distributed loads are idealized.

Loads must be applied to knot points!

* limited by interaction of shear and moment at the connectors

The deadweight of 4,0 kg/m has been considered