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

TÜV NORD
TÜV NORD CERT GmbH
Baumuster geprüft

Max. inner forces (upright)

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

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

Load table

Span	UDL Uniformily Distributed load		CPL Centre Point load		TPL Third Point load		QPL Quarter Point load		FPL 5th Point load	
m	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