26.10.17





ATTENTION	l: lan W	lan Wood STRUCTURAL DESIGN CERTIFICATE FOR TEMPORARY STRUCTURES	
	STRUC		
	PROJECT:	Aluminium Dropper Bar	
	STRUCTURE:	2m x 1m Aluminium Dropper Bar and Clamp	
	LOCATION:	Multiple Locations (Non-Cyclonic)	
	DURATION:	October 2017—October 2018	

We Event Engineering, being professional Structural Engineers within the meaning of the Building Code of Australia, confirm that we have been appointed as the engineers responsible for the Structural Certification of the above structure. We certify that we have reviewed the design as described herein and that this work was designed in accordance with the relevant provisions of the standard building codes, accepted engineering practice and principles and the design methods for *Temporary demountable structures* as specified in the *Guidance on procurement, design and use of temporary demountable structures* (Institution of Structural Engineers, 2017) subject to the design limitations listed overleaf.

We advise that the maximum design 3 second wind gust speed (if deployed externally) for the above structure is at minimum 25m/s as per the minimum requirements set forth by AS1170.2:2011 (Clause 2.3). Should the wind speed measured on site approach this speed, the safety steps identified in this certificate must be implemented.

We note that this certification is effective as of the dates specified for this installation and that further inspections will be required if the work is modified, leading to a final certification after which any modifications have been completed. This certificate shall not be construed as relieving any other party of their responsibilities, liabilities or contractual obligations. This certificate is applicable only for this installation and relies upon all other risk assessments, WHS safety requirements and job safety statements associated with this project.

Alice Los GradlEAust BEng (Civil & Architectural) GRADUATE ENGINEER

EVENT ENGINEERING 17-19 O'Connor Street Chippendale, NSW 2008 02 9690 1734

Morgan Sheehy MEng (Hons I) Tech Cert Eng (Civil) MIEAust CPEng NER (Structural) RPEQ Registered Building Practitioner VIC EC 41049 (Civil Engineer) SENIOR ENGINEER

JOB NO.: EE17 000 DQ REV.: A



26.10.17

1. <u>REFERENCED STANDARDS</u>

- **1.1. ABCB:2015** Temporary Structures Standard
- 1.2. AS1170.0:2002 General Principles
- 1.3. AS1170.1:2002 Permanent, Imposed and Other Actions
- **1.4. AS1170.2:2011** Wind Actions
- 1.5. AS1664.1:1997 Aluminium Structures
- **1.6. IStructE:2017** Temporary demountable structures

2. ATTACHMENTS

2.2.

2.1. Issued By: Design Quintessence;

Reference: GYFZ-ZC80-2000 Model;

GYFZ-ZC80-2000 Model Load Case 1; GYFZ-ZC80-2000 Model Load Case 2;

GYFZ-ZC80-2000 Model Load Case 3;

TUV NORD Certificate.

3. DESIGN LIMITATIONS & REQUIREMENTS

- 3.1. Maximum Loading:
 - 3.1.1. Load Case 1: 100kg Total;
 - 3.1.2. Load Case 2: 120kg Total;
 - 3.1.3. Load Case 3: 125kg Total;
- **3.2.** Fixing Attachment: Top fixing to supporting infrastructure to be certified by others for the applied loads;
- **3.3.** Catenary Loading: No catenaries to be fixed to structure;
- **3.4.** Wind Management Plan (If deployed externally): The wind speed must be measured on site by an anemometer or the nearest Bureau of Meteorology in the event that no onsite anemometer exists. The following safety steps **must** be taken should the forecasted wind speed approach the design wind speed in the duration of the above project;
 - **3.4.1.** If the wind speed approaches **18m/s**, personnel **must** go on standby to implement an evacuation and create an exclusion zone of 10m;
 - **3.4.2.** If the wind speed approaches **20m/s**, all non-essential personnel **must** be evacuated and an exclusion zone created;
 - **3.4.3.** If the wind speed approaches **25m/s**, all structures **must** be abandoned and all personnel moved within a permanent structure of importance level 2-4 as specified within the BCA.











ZERTIFIKAT CERTIFICATE

Hiermit wird bescheinigt, dass die Firma / This certifies that the company

Taiwan Georgia Corp. 7F-2, No. 352, Wo-Hsing St., 000 Taipei, Taiwan

berechtigt ist, das unten genannte Produkt mit dem abgebildeten Zeichen zu kennzeichnen is authorized to provide the product mentioned below with the mark as illustrated

Bao An County, China

Global Truss

Fertigungsstätte Manufacturing plant

Beschreibung des Produktes (Details s. Anlage 1) Description of product (Details see Annex 1)

Geprüft nach Tested in accordance with

Prüfprogramm nach DIN EN 13814:2004 Fliegende Bauten und Anlagen für Veranstaltungsplätze und Vergnügungsparks Sicherheit 5.3.6.2 Lastkombinationen - Grundkombinationen

Test program according to DIN EN 13814:2004 Fairground and amusement park machinery and structures Safety 5.3.6.2 Load cases - basic combinations

GYF Golden Yuan Fuh Bicycle Accessory Factory

Schelle für Aluminium Traversen Typ: 5035

Clamp for aluminium truss systems type: 5035

ShenZhen, Fu Rong Industrial Area, Sha Jing Town

Registrier-Nr. / Registered No. 44 780 13013505 Prüfbericht Nr. / Test Report No. 3511 4615 Aktenzeichen / File reference 2.4-174/07

Gültigkeit / Validity von / from 2013-10-04 bis / until 2018-10-03

NORD CERT GmbH ΤÜ

Zertifizierungsstelle Konsumgüter

Essen, 2013-10-04

TÜV NORD CERT GmbH

Langemarckstraße 20

45141 Essen

www.tuev-nord-cert.de

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TEN NORD

TÜV NORD CERT

Uster

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Bitte beachten Sie auch die umseitigen Hinweise Please also pay attention to the information stated overleaf



ANLAGE/ANNEX

Anlage 1, Seite 1 von 1 Annex 1, page 1 of 1

zum Zertifikat Registrier-Nr. / to Certificate Registration No. 44 780 13013505

Produktbeschreibung: Discription of product:

Typbezeichnung: Type designation:

Nennlast: Nominal load:

Breite: Width:

Innendurchmesser der Schelle: Inner diameter of the clamp:

Material: Material: Schelle für Aluminium Traversen Clamp for aluminium truss systems

Typ: 5035 type: 5035

500 kg

50,0 mm

50,8 mm

Aluminium 6061 T6

TÜ NORD CERT GmbH Zertifizierungsstelle Konsumgüter

Essen, 2013-10-04

TÜV NORD CERT GmbH

Langemarckstraße 20

45141 Essen

www.tuev-nord-cert.de prodcert@tuev-nord.de



TÜV NORD CERT GmbH Langemarckstrasse 20 45141 Essen Tel.: +49 201 8255120 e-mail: prodcert@tuev-nord.de

Technical Report

Testing Laboratory Product Safety

Report No. 35114615 dated 27.08.2013

Applicant:

Taiwan Georgia Corp. 7F-2, No. 352, Wo-Hsing St., 000 Taipei, Taiwan

Device under test:

Clamp for an aluminium truss system type: 5035

Test principles:

Test program according to DIN EN 13814:2004 Fairground and amusement park machinery and structures Safety 5.3.6.2 Load cases – basic combinations

Order no.:

8000416936

File no .:

Test engineer:

Testing period:

Place of testing:

2.4-174/07

03.2013

Dipl.-Ing. Ulrich Braun

TÜV NORD CERT GmbH Langemarckstr. 20, 45141 Essen

The report consists of 2 pages

Partial duplication of this Technical Report and its use for advertising purposes is allowed with permission of the testing laboratory only. This Technical Report contains the result of the examination of the product sample submitted by the manufacturer. A general statement concerning the quality of the products from the series manufacture cannot be derived therefrom.



Technical report no. 35114615 dated 27.08.2013 page 2 of 2

1. General

Technical Ratings:

Nominal load:	500 kg
Clamp inner diameter:	50,8 mm
Width:	50,0 mm
Material:	Aluminium 6061 Te

Type of examination: TÜV NORD type approval

2. Submitted files

Certificate no. 44 780 07 349635 dated 14.11.2007

3. Comments

The above described aluminium clamp type 5035 is identical with the aluminium clamp system type 5035 described in the type approval certificate no. 44 780 07 349635 dated 14.11.2007. The retesting of the clamp has become necessary because the type approval certificate no. 44 780 07 349635 did expire at 14.11.2012. Also the DIN 4113 1-3 did expire and has been replaced by the EN 1090 parts 1-3 , EN 13814 and EUROCODE 9.

4. Test result

The referencend units are in compliance with the above requirements.

Albert Brinkmann

Ulrich Braun