

# TYPE APPROVAL CERTIFICATE

**This is to certify:**

**That the Cargo Securing Devices**

with type designation(s)  
**GW 105 PES / 2000 & GWS 30**

Issued to  
**Grönheit & Weigel GmbH**  
**Tönisvorst, Nordrhein-Westfalen, Germany**

is found to comply with  
**EN 12195-2 Load restraint assemblies on road vehicles – Safety – Part 2: Web lashing made from man-made fibres**

**Application :**

**Polyester woven one way lashing**

Break strength test results:

linear                      system

- 1. 2.074 daN / 3.782 daN
- 2. 2.179 daN / 3.675 daN
- 3. 2.169 daN / 3.602 daN

Linear:                      breaking strength of strapping only  
System:                    system breaking strength of strapping connected by the buckle GWS 30

Breaking strength of strapping:                    minimum 2.000 daN

Place and date of test: Neuss, Germany, 2019-06-13

Issued at **Hamburg** on **2019-10-02**

This Certificate is valid until **2024-10-01** .  
DNV GL local unit: **Essen**

Approval Engineer: **Joachim Rehbein**



for **DNV GL**  
Digitally Signed By: Dau, Gabi  
Location: DNV GL Hamburg, Germany  
Signing Date: 2019-10-02, on behalf of

**Thorsten Lohmann**  
**Head of Section**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

