LIFTINSTITUUT

PRODUCTS
RvA C 067

EU-TYPE EXAMINATION CERTIFICATE

Issued by Liftinstituut B.V.
identification number Notified Body 0400,
commissioned by Besluit no. 2016-0000038870

Certificate no.	:	NL15-400-1002-142-03 Revision no.: 1
Description of the product	:	Energy accumulation buffers with nonlinear characteristics
Trademark, type	:	ETN, EN 10
Name and address of the manufacturer	:	Pleiger Kunststoff GmbH & Co. KG Im Hammertal 51 D-58456 Witten, Germany
Name and address of the certificate holder	:	Elastomer Technik Nürnberg GmbH An der Kaufleite 20 D-90562 Kalchreuth, Germany
Certificate issued on the following requirements	:	Lifts Directive 2014/33/EU
Certificate based on the following standard	:	EN 81-20:2014 Clause 5.8 EN 81-50:2014 Clause 5.5
Test laboratory	:	Liftinstituut, Alphen aan den Rijn
Date and number of the laboratory report	:	August 31st, 2015, Test report belonging to the EC type-examination certificate nr.: NL15-400-1002-142-03
Date of EU-type examination	:	January 2015 – August 2015, June 2016
Additional document with this certificate	:	Report belonging to the EU-type examination certificate no.: NL15-400-1002-142-03 Rev. 1
Additional remarks	:	Dimensions Ø100/60/35 x 84 mm Load range 1.0 m/s 250 – 700 kg Load range 0.8 m/s 160 – 1000 kg
Conclusion	:	The component meets the requirements of the Lifts Directive 2014/33/EU taking into account any additional remarks mentioned above.

Date of issue : 23-06-2016

Valid until : 23-06-2021

ing. J.L. van Vliet
Managing Director

Certification decision by

CERT05P

EU-Declaration of Conformity for ETN-lift buffers

Subject:	ETN-lift buffers
Dimensions and load ranges	see table, page 2

Materials:

ETN-lift buffer	ETN®- Cell-PU
Mounting plates	Steel

We hereby declare that the construction	***lift buffer attachments with non-linear characteristic***
conforms to the relevant regulations of the	***lift directive 2014/33/EU***
Harmonised standards used:	***EN 81-20:2014*** ***EN 81-50:2014***
Nominated test centre for the execution of EC type examination test:	***LIFTINSTITUUT B.V.*** ***Buikslotermeerplein 381*** ***NL-1025 XE Amsterdam*** ***Notified body: 0400***
EC type examination test certificate No.:	***see table, page 2***
Production monitoring by:	***LIFTINSTITUUT B.V.*** ***Buikslotermeerplein 381*** ***NL-1025 XE Amsterdam*** ***Notified body: 0400***
Year of manufacture of buffer attachment:	***2016***

Horst Eichler

Management:	20/04/2016 Date	Horst Eichler Signature

Elastomer-Technik Nürnberg GmbH · An der Kaufleite 20 · D-90562 Kalchreuth
Tel. +49-911-518474-0 · Fax +49-911-518474-24 · E-Mail: info@de-etn.com

EU type examination for ETN-lift buffer

The type examination tests for **ETN®**-lift buffers made from **Cell-PU** have been carried out in accordance with lift directive **2014/33/EU**. The **certificate number** records the permissible load ranges for every type of lift buffer. An **EU type examination test certificate** can be issued for every type of lift buffer on request.

min./max. load of range [kg] – nominal speed

Dimension [mm]	Buffer type	0,5 m/s	0,63 m/s	0,8 m/s	1,0 m/s
Ø 100 x 80	EN 10	160 1.000			250 700
EC type examination test certificate No.: **NL15-400-1002-142-03**					

Specified office: LIFTINSTITUUT B.V.
Buikslotermeerplein 381
NL-1025 XE Amsterdam

Elastomer-Technik Nürnberg GmbH · An der Kaufleite 20 · D-90562 Kalchreuth
Tel. +49-911-518474-0 · Fax +49-911-518474-24 · E-Mail: info@de-etn.com

Operating instructions for ETN lift buffers

ETN lift buffers are used as springs and damping elements for lifts. Depending on the type of lift (with or without choke or choke non-return valve), **ETN** lift buffers are available in a range of sizes for different max. and min. loads. The load ranges for **ETN** lift buffers are recorded in the EC type examination certificates.

ETN lift buffers are manufactured with a circular steel mounting plate with central hole for central screw fitting.

ETN lift buffers can be arranged side-by-side or in line, but the following must be noted when fitting the units:

Side-by-side mounting of the lift buffers

The distance between the outer surfaces of the buffer must be at least **40 %** of the buffer diameter
(e.g. buffer ∅ 100 mm, distance 40 mm)

Ambient conditions

Temperature range:	-40°C to +80°C, continuous use up to 50°C
Humidity:	70% relative humidity at room temperature Avoid continuous contact with water
Contamination:	Oil and grease compatible, but protect agains acids and cleaning agents.

Life, maintenance

ETN lift buffers have a minimum life of at least 5 years, but we cannot guarantee this. They are maintenance**-**free, but they should be subjected to regular visual checks when inspecting and maintaining safety components. Should the shape of the buffer have undergone considerable visible change, it must be exchanged for a new item. The buffer must also be changed after the lift cage has dropped hard on to the buffer. Changes in colour of the buffer from white to brown relate to the material and have no influence on the technical and physical characteristics of **ETN** lift buffers.

Note

ETN lift buffer may only be used when it has been determined that the lift installation conforms to the **Lift Directive 2014/33/EU**. **ETN** lift buffers must not be subjected to a continuous load and therefore must not be used as resting point during repair and maintenance work.

07/04/2016

Elastomer-Technik Nürnberg GmbH · An der Kaufleite 20 · D-90562 Kalchreuth
Tel. +49-911-518474-0 · Fax +49-911-518474-24 · E-Mail: info@de-etn.com

Lift buffers corresponding to EN 81 Calculation

Customer | Lift-no.

Operating speed V = m/s

1. Cage + Working load

Number of buffer (n) =

$m_{max} = \frac{Q + F}{n} = \frac{\quad + \quad}{\quad} =$ kg

Buffer-no.

$m_{min} = \frac{F}{n} = \frac{\quad}{\quad} =$ kg

2. Counterweight

Number of buffer (n) =

$m_G = \frac{F + Q/2}{n} = \frac{\quad + \quad/2}{\quad} =$ kg Buffer-no.

m = Weight [kg] F = Cage weight [kg]

Q = Working load [kg] m_G = Counterweight [kg]

Lift producer:	Technical regularity body:
Signature:	Signature:
Dated:	Dated:

Elastomer-Technik Nürnberg GmbH · An der Kaufleite 20 · D-90562 Kalchreuth
Tel. +49-911-518474-0 · Fax +49-911-518474-24 · E-Mail: info@de-etn.com