




EC type-examination certificate

Certificate No.	0725/PU46/2-BP
Notified body	Zentrum der Förder- und Aufzugstechnik Rosswein gemeinnützige GmbH Döbelner Str. 65 A D-04741 Rosswein Ident. No.: 0734
Product / Type	Energy-accumulating buffer with damping of the return movement und non-linear characteristic Type EN 7
Name and address of the Manufacturer	Pleiger Kunststoff GmbH & Co. KG Im Hammertal 51 D-58456 Witten
Name und address of the applicant (Certificate owner)	Elastomer-Technik Nürnberg GmbH An der Kaufleite 20 D-90562 Kalchreuth
Date of submission	2007-08-02
EC-Directive / European Standard	<ul style="list-style-type: none">▪ Lift Directive 95/16/EC▪ EN 81-1/2 : 1998 + AC : 1999▪ Rec for Use NB-L/REC 2/022-V01
Test laboratory	Zentrum der Förder- und Aufzugstechnik Rosswein gemeinnützige GmbH - Prüflaboratorium -
Number and date of test report	0724/PU46/1-BE of 2007-08-21
Statement	The safety component conforms to the directive's essential safety requirements and health requirements for the respective scope of application stated of the annex to this EC type-examination certificate.
Certificate date	2007-08-24
Annex	Annex to the EC type-examination certificate no. 0725/PU46/2-BP

Zentrum der Förder- und Aufzugstechnik
Rosswein gemeinnützige GmbH
- Zertifizierungsstelle -


Prof. H. Patzelt
Head of the
Certification Body




DI Th. Meyer
Editor

Annex to the EC type-examination certificate No. 0725/PU46/2-BP

1 General Information

1.1 Scope of application

Application with elevators by Lift Directive 95/16/EC and harmonised European Standard EN 81-1/2

1.1.1	max. rated speed:	1,25 m/s
1.1.2	max. hitting speed:	1,44 m/s
1.1.3	min. mass:	400 kg
1.1.4	max. mass:	1.050 kg

1.2 Allowed ambient conditions

(according to manufacturer's instructions)

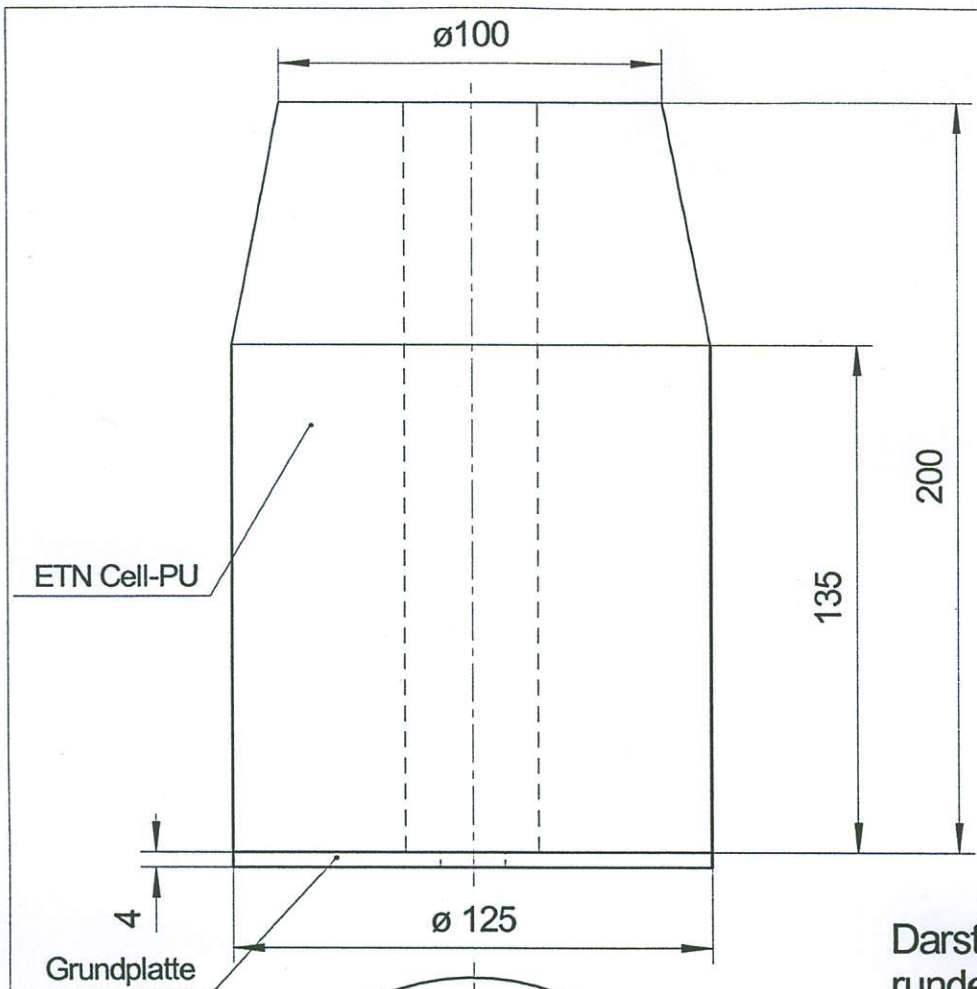
1.2.1	Temperature range:	-40°C to +80°C, continuous use up to +50°C
1.2.2	Humidity:	Max. 70% relative humidity at room temperature, avoid continuous contact with water, no effect of chemical substances
1.2.3	Contamination:	Oil-compatible and grease-compatible, protect against acids and leaches

1.3 External signs of the buffer

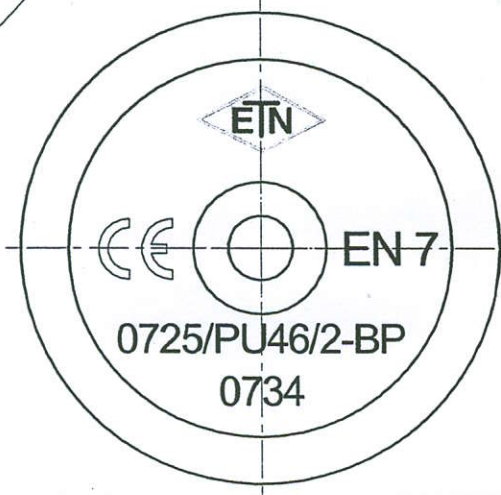
1.3.1	Dimensions:	Diameter: 125/100 mm Height: 200 mm
1.3.2	Material:	ETN® - Cell-PU
1.3.3	Kind of fixing:	Style A: Circular steel mounting plate with central hole for screw fitting Ø 17 mm Style B: Quadratic steel mounting plate with 4 holes for screw fittings Ø 17 mm Style C: Oval steel mounting plate with 2 holes for screw fittings Ø 14 mm
1.3.4	Marking:	CE marking, Certificate owner („ETN“), Type of buffer („EN 7“), Number of the EC type-examination certificate („0725/PU46/2-BP“), Identity number of notified body („0734“)

2 Additional remarks

- Deceleration peaks by the single tests to the EC type-examination have appeared no more than 6,0 g_n.
- The details of the operating instructions for ETN-lift buffers (dated 2007-08-08) are must be noted.
- The EC type-examination certificate and their annex is to be enclosed the drawing no. 07-057 dated 2007-06-01.
- The EC type-examination certificate may be used in connection with the pertinent annex only.



Darstellung mit runder Grundplatte "A"



21. AUG. 2007

Th. Meyer
 DI Th. Meyer
 Leiter Prüflaboratorium

Grundplatte	Abmessung	Befestigungsbohrungen		Befestigungsmittel
"A" - rund	$\varnothing 125$ mm	$\varnothing 17$ mm - zentrisch		1x Schraube M16
"B" - quadratisch	$\square 150$ mm	$\varnothing 17$ mm - zentrisch	$\varnothing 17$ mm (4x $\square 115$ mm)	4x Schraube M16
"C" - oval	150 x 215 mm	$\varnothing 17$ mm - zentrisch	$\varnothing 14$ mm (2x s=165 mm)	2x Schraube M12

Elastomer-Technik Nürnberg GmbH
 An der Kaufleite 20
 D-90562 Kalchreuth



Maßstab 1 : 2

	Datum	Name
Bearb.	01.06.07	Schaake
Gepr.		
Norm		
Zust.	Änderung	Datum Name Ursprung

Aufsetzpuffer EN 7
 $\varnothing 125/100$ x 200 mm
 (Zeichnung für Baumusterprüfbescheinigung)

Zeichnung-Nr. 07-057

Blatt
 Blätter

Ersatz für: Ersatz durch:



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

Safety component in accordance with annex III number 4 of the directive 2014/33/EU – Energy-accumulating lift buffer with non-linear characteristics

Harmonised standards used:

**EN 81-1 (1998) + A3: 2009
EN 81-2 (1998) + A3: 2009**

Nominated test centre for the execution of EC type examination test:

**Zentrum der Förder- und Aufzugstechnik Roßwein gGmbH
Döbelner Str. 65 A
D-04741 Roßwein
Notified body: 0734**

EC type examination test certificate no.:

see page 2

Production monitoring by:

**LIFTINSTITUUT B.V.
Buikslotermeerplein 381
NL-1025 XE Amsterdam
Notified body: 0400**

Year of production:

2016 (details see date stamp)

Management:

**31/03/2016
Date**

**Horst Eichler
Signature**



EU type examination for ETN-lift buffers

The type examination tests for ETN lift buffers made from Cell-PU have been carried out in accordance with lift directive 95/16/EG. 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	1,25 m/s
Ø 125 x 200	EN 7	400 1.050
EC type examination test certificate No.: 0725/PU46/2-BP		

Specified office: Zentrum der Förder- und
Aufzugstechnik Roßwein gGmbH
Döbelner Str. 65 A
D-04741 Roßwein

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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 \varnothing 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 against 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.

31/03/2016



Lift buffers corresponding to EN 81 Calculation

Customer

Lift-no.

Operating speed V = m/s

1. Cage + Working load

Number of buffer (n) =

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

Buffer-no.

$$m_{\min} = \frac{F}{n} = \text{---} = \text{---} \text{ kg}$$

2. Counterweight

Number of buffer (n) =

$$m_G = \frac{F + Q/2}{n} = \text{---} + \text{---}/2 = \text{---} \text{ kg}$$

Buffer-no.

m = Weight [kg]

F = Cage weight [kg]

Q = Working load [kg]

m_G = Counterweight [kg]

<p>Lift producer:</p> <p>Signature:</p> <p>Dated:</p>	<p>Technical regularity body:</p> <p>Signature:</p> <p>Dated:</p>
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