



ÉMI-TÜV

# EU-TYPE EXAMINATION CERTIFICATE

According to Annex IV, Part A of 2014/33/EU Directive

**Certificate No:** F-0381/2021

**Certificate Body of the Notified Body:** ÉMI-TÜV SÜD Ltd.  
Dózsa György út 26.  
H-2000 Szentendre  
Identification No. 1417

**Certificate holder:** **BASF Polyurethanes GmbH**  
Elastogranstraße 60, 49448 Lemförde,  
Germany

**Manufacturer of the test sample:** **BASF Polyurethanes GmbH**  
Elastogranstraße 60, 49448 Lemförde,  
Germany

**Product:** **Energy accumulation buffers with non linear characteristic**

**Type:** 80-80

**Directive:** 2014/33/EU

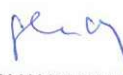
**Reference Standards:** EN 81-20:2020  
EN 81-50:2020

**Test report:** LAB-20-21/2021

**Outcome:** The safety component conforms to the essential health and safety requirements of the mentioned directive as long as the requirements of the annex of this certificate are kept.

**Date of Issue:** 2021-04-26



  
László, Hebők Jr.  
NB - 1417

Notified Body 1417  
ÉMI-TÜV SÜD Ltd. TÜV SÜD Group  
H-2000 Szentendre, Dózsa György Str. 26.  
Tel.: (+36) 26 501-120 Fax.: (+36) 26 501-150  
Product certification body accredited by NAH under No NAH-6-0005/2019/K.

TUV®



## Annex to the EU-type examination certificate F-0381/2021

### 1. Scope of application:

Type designation: 80-80  
Product type: Energy accumulation buffers with non linear characteristic  
Field of application: To be used for elevators in accordance with the directive 2014/33/EU  
1 m/s min mass: 200 [kg]  
1 m/s max mass: 500 [kg]  
0,63 m/s min mass: 140 [kg]  
0,63 m/s max mass: 1000 [kg]

### 2. Remarks:

- 2.1. Each product must be accompanied by the instructions which are necessary for its operation and installation.
- 2.2. In order to provide identification and information about the basic design and its functioning and to show the environmental conditions and connection requirements pertaining to the type tested and approved by certification body the drawing of 80-80 stamped with ÉMI-TÜV, is to be enclosed with EU type-examination certificate and the Annex thereto.
- 2.3. Each product must bear a distinct indication of the manufacturer or importer and a type designation, so that the identity of the tested sample might be determined with the standard product launched on the market.
- 2.4. The EU type-examination certificate may only be used in connection with the pertinent Annex.
- 2.5. The EU type-examination certificate may lose its validity if the requirements are modified.





Industrie Service

**Add value.  
Inspire trust.**

TÜV SÜD Industrie Service GmbH · Gottlieb-Daimler-Str. 7 · 70794 Filderstadt · Germany

**BASF Polyurethanes GmbH**  
Mr. Schröder  
Elastogranstr. 60  
49448 Lemfoerde

Your reference/letter of	Our reference/name	Tel. extension/Email	Fax extension	Date	Page
	IS-FTT-STG/ Carina Rebernak	+49 711 7005-633 carina.rebernak@tuvsud.com	+49 711 7005-588	2021-09-24	1 of 1

Dear Mr. Schröder,

We confirm that the identification number 1714 is the official Notified Body number of EMI-TÜV SÜD in Hungary.

The 0036 which you attach to your safety components, as we carry out the annual random sample test (module C2 of the ARL), is our Notified Body number in Germany.

If you have any further questions, please do not hesitate to contact us

Yours sincerely

Jonas Conrady  
Abteilungsleiter  
Zentralbereich Fördertechnik  
Abteilung New Technologies

**EU DECLARATION OF CONFORMITY**

Manufacturer : BASF Polyurethanes GmbH  
Postfach 1140  
49440 Lemförde - Germany

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

Type : 80-80  
100-80  
125-80  
165-80  
140-110

Year of production : See date stamp

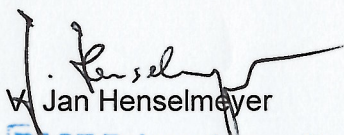
The safety part corresponds to the following  
regulation and harmonised standards : Directive 2014/33/EU  
EN 81-20:2020  
EN 81-50:2020

Notified body for type examination : EMI- TÜV SÜD Ltd.  
Dózsa György út 26. 2000  
Szentendre - Hungary  
Notified Body 1417

EU - type examination certificate : 80-80: F-0381/2021  
100-80: F-0382/2021  
125-80: F-0383/2021  
165-80: F-0385/2021  
140-110: F-0384/2021

Notified body for random checking : TÜV SÜD Industrie Service GmbH  
Westendstr. 199  
80686 München - Germany  
Notified Body 0036

October 27<sup>th</sup>, 2021

  
i. V. Jan Henselmeyer  
BASF Polyurethanes GmbH  
Global Business  
Management Cellasto®  
Postfach 1140, 49440 Lemförde

BASF Polyurethanes GmbH · Postfach 1140 · 49440 Lemförde · Germany

## Lifetime of Cellasto®-L lift buffers, operating & maintenance instruction

1. Mounting / Installation / Marking
2. Temperature range for operation
3. Lifetime of the product
4. Harm by external fluids
5. Harm by fire
6. Visual inspection at maintenance

### 1. Mounting / Installation / Marking

Cellasto®-L lift buffers can be mounted in single or multiple configuration. The load range must comply with the EG-type examination certificate of the buffer. The parts contain a steel insert, which is form-fit connected with the Polyurethane material. Installation can be done in the lift shaft, on the elevator car and on the counterweight. We recommend to use a screw M16 to fix the parts, whereat the use of a washer is not necessary. For hanging installation we highly recommend a screw locking.

The area of support should be even and about 15 % bigger than the lift buffer diameter. The impact / contact area should be even and parallel to the lift buffer's upper surface.

Following legal requirements of some countries (e.g. A17.7), the lift buffers must be marked with the name of the competent supervisory authority and additional information, if not already engraved or printed on the part. The foreseen tags (plates, labels or stickers) are then delivered in these countries together with the parts. Production batches are displayed by date clocks on the parts.

### 2. Temperature range for operation

Cellasto®-L lift buffer operation temperature should be between -20°C and +60°C. Exceeding these limits will not directly influence the lifetime, but the operating characteristic / load deflection curve could be affected.

### 3. Lifetime of the product

Cellasto®-L lift buffers are maintenance-free, but there must be take place a regular visual inspection (see pt. 6). The lifetime depends on the climate condition in the lift shaft. Generally the lift buffers have a lifetime of more than 10 years, and their design is foreseen to withstand the dynamic cycles and applied loads for 30 years.

### 4. Harm by external fluids

Cellasto®-L lift buffers must not have any contact with strong acids or bases as well as with oils and greases, because this could lead to a destruction of this Polyurethane element. In the case of occurrence of such a contamination, the lift buffer must be exchanged. Humidity and its condensate do not harm the lift buffer.

.../2

**Lifetime of Cellasto®-L lift buffers, operating & maintenance instruction**

## 5. Harm by fire

In the case of a fire, Cellasto®-L lift buffers can partially burn (melt), be partly or completely damaged. Therefore it should be done immediately a visual inspection of the elements after a fire occurrence nearby the installation area.

## 6. Visual inspection at maintenance

Lift buffers must be exchanged, if found one of the following cases during yearly visual inspection:

- a. Cracks (appearance: gape open; inner surface area is rough)
- b. Detaching and or peeling of the lift buffer outer skin (appearance: loose areas)
- c. Missing areas / broken out (appearance: rough area)
- d. Burning marks (appearance: black or dark brown; melted areas)
- e. Damages by acids or bases (appearance: corrosive groove)
- f. Cuts (appearance: like incision with knife)

BASF Polyurethanes GmbH  
Global Business Management Cellasto®  
July 28<sup>th</sup>, 2016



ppa. Dr. Strauß  
New Markets & Products



i. V. Wilke  
Senior Manager Quality Management Europe



## Lift buffers corresponding to EN 81 Calculation

Customer

Lift-no.

Operating speed V =  m/s

### 1. Cage + Working load

Number of buffer (n) =

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

Buffer-no.

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

### 2. Counterweight

Number of buffer (n) =

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

Buffer-no.

m = Weight [kg]

F = Cage weight [kg]

Q = Working load [kg]

m<sub>G</sub> = Counterweight [kg]

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