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## EU-TYPE EXAMINATION CERTIFICATE EU-BAUMUSTERPRÜFBESCHEINIGUNG

According to Annex IV, Part A of 2014/33/EU Directive  
Gemäss Anhang IV, Teil A der Richtlinie 2014/33/EU

CERTIFICAT

CERTIFICADO

СЕРТИФИКАТ

認證證書

CERTIFICATE

ZERTIFIKAT

|  |   |
|--|---|
| <b>Certificate No /<br/>Bescheinigungs-Nr.:</b>                          | <b>F-0538/2022</b>  |
| <b>Notified Body /<br/>Notifizierte Stelle:</b>                          | ÉMI-TÜV SÜD Ltd.<br>Dózsa György út 26.<br>H-2000 Szentendre<br>Identification No. 1417<br>Kenn-nummer: 1417  |
| <b>Certificate holder /<br/>Bescheinigungsinhaber :</b>                  | <b>P+S Polyurethan-Elastomere GmbH &amp; Co.<br/>KG</b><br>Kielweg 17, 49356 Diepholz, Germany  |
| <b>Manufacturer of the test sample /<br/>Hersteller des Prüfmusters:</b> | <b>P+S Polyurethan-Elastomere GmbH &amp; Co. KG</b><br>Kielweg 17, 49356 Diepholz, Germany  |
| <b>Product /<br/>Produkt:</b>  | Energy accumulation buffer with non linear<br>characteristic /<br><i>Energiespeichernder Aufsetzpuffer<br/>Mit nichtlinearer Kennlinie</i>  |
| <b>Type / Typ:</b>   | <b>D2-55</b>  |
| <b>Directive / Richtlinie:</b>   | <b>2014/33/EU</b>   |
| <b>Reference Standards / Prüfgrundlage:</b>                              | <b>EN 81-20:2020<br/>EN 81-50:2020</b>  |
| <b>Test report / Prüfbericht:</b>  | <b>LAB-22-10-9-D2-55</b>  |
| <b>Outcome / Ergebnis:</b>   | The safety component conforms to the essential<br>health and safety requirements of the mentioned<br>directive as long as the requirements of the annex<br>of this certificate are kept. /<br><i>Das Sicherheitsbauteil entspricht den wesentlichen<br/>Gesundheits- und Sicherheitsanforderungen der genannten<br/>Richtlinie, sofern die Anforderungen des Anhangs dieser EU-<br/>Bescheinigung eingehalten sind.</i> |
| <b>Date of Issue / Ausstellungsdatum:</b>                                | 2023-06-01  |



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.

ifj. Hebök László  
NB - 1417

TUV®



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**Annex to the EU-type examination certificate /  
Anhang zur EU-Baumusterprüfbescheinigung  
No. F-0538/2022 of 2023-06-01**

**1. Scope of application / Anwendungsbereich**

- 1.1. Permissible total mass of car and rated load or counterweight by using one buffer depending on the maximum rated speeds /  
*Zulässige Gesamtmasse von Fahrkorb und Nennlast bzw. Gegengewicht bei Verwendung eines Puffers in Abhängigkeit von den maximalen Nenngeschwindigkeiten*

| Type of use<br><i>Art der Anwendung</i> | Rated speed<br><i>Nenngeschwindigkeit</i><br>[m/s] | Min. total mass<br><i>Min. zulässige Last</i><br>[kg] | Max. total mass<br><i>Max. zulässige Last</i><br>[kg] |
|---|--|---|---|
| M1                                      | 1,00   | 500   | 2100  |
| M2                                      | 0,63   | 250   | 4200  |

*(If several buffers are used, the permissible total mass can be multiplied accordingly /  
Bei Verwendung mehrerer Puffer kann die zulässige Gesamtmasse entsprechend der verwendeten Anzahl erhöht werden.)*

- 1.2. Further technical data/information / *Weitere technische Daten / Angaben*

Maximum impact speed (Type of use)/  
*Maximale Auftreffgeschwindigkeit (Art der Anwendung)* 1,15 m/s (M1); 0,73 m/s (M2)

Dimension / *Abmessung* Ø 100 x 80 mm

Material / *Werkstoff* Diepocell® BM 68

Connecting elements / fixing elements / marking /  
*Verbindungs- / Befestigungselemente / Kennzeichnung* see clause 2.2  
*siehe Punkt 2.2*

- 1.3. Environmental conditions / *Umgebungsbedingungen*

Temperature / *Temperatur* -15 °C to +60 °C

Humidity / *Luftfeuchtigkeit* max. 98% at room temperature, non-condensing  
*max. 98 % bei Raumtemperatur, nicht kondensierend*

Pollution / *Verschmutzung* no exposure to acids, bases, solvents  
*keine Einwirkung von Säuren, Laugen, Lösungsmitteln*

**2. Conditions / Bedingungen**

- 2.1. By using more than one buffer these safety devices must be identical in design, execution and installation position. /  
*Bei Verwendung von mehr als einen Puffer sind Puffer in gleicher technischer Bauform, Ausführung und Einbaulage zu verwenden*
- 2.2. The manufacturer's operating must be observed in particular with regard to inspection, replacement criteria and fixing. /  
*Die Betriebsanleitung des Herstellers ist insbesondere hinsichtlich Inspektion, Austausch Kriterien und Befestigung zu beachten*



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- 2.3. The approval drawing No PU 12-1348, PU 2-1349, PU 2-1350 including stamp from 2023-06-01 shall be included to the EU-type examination for the identification and information of the general design and operation and distinctness of the approved type. /  
*Zur Identifizierung und Information über die prinzipielle Bau- und Wirkungsweise und Abgrenzung des geprüften und zugelassenen Baumusters ist der EU-Baumusterprüfbescheinigung und deren Anhang, die Identifikationszeichnung Nr. PU 12-1348, PU 2-1349, PU 2-1350 mit Prüfvermerk vom 01.06.2023 beizufügen*
- 2.4. The EU-type examination certificate may only be used in combination with the corresponding annex and enclosure (List of authorized manufacturers of the serial production). The enclosure will be updated immediately after any change by the certification holder. /  
*Die EU-Baumusterprüfbescheinigung darf nur zusammen mit dem dazugehörigen Anhang und der Anlage (Liste der Hersteller Serienfertigung) verwendet werden. Diese Anlage wird nach den Angaben des Bescheinigungsinhabers aktualisiert und mit neuem Stand herausgegeben*

### 3. Remarks / Bemerkungen

- 3.1. The testing of other requirements of the standard, wear-related reduction of the buffer forces, as well as permanent influence of the ambient conditions are not part of this type examination. /  
*Die Prüfung anderer Anforderungen der Norm, verschleißbedingter Abbau der Pufferkräfte, sowie dauerhafter Einfluss der Umgebungsbedingungen sind nicht Bestandteil dieser Baumusterprüfung.*
- 3.2. This EU-type examination certificate has been issued on basis of the following standards:  
*Diese EU-Baumusterprüfbescheinigung wurde auf Basis folgender Normen erstellt*
- EN 81-20:2020, clause 5.8.
  - EN 81-50:2020, clause 5.5.

A revision of this EU-type examination certificate is inevitable in case of changes or additions of the above-mentioned standards or changes of state of the art.  
*Bei Änderungen bzw. Ergänzungen der oben genannten Normen bzw. bei Weiterentwicklung des Standes der Technik wird eine Überarbeitung der EU-Baumusterprüfbescheinigung notwendig.*

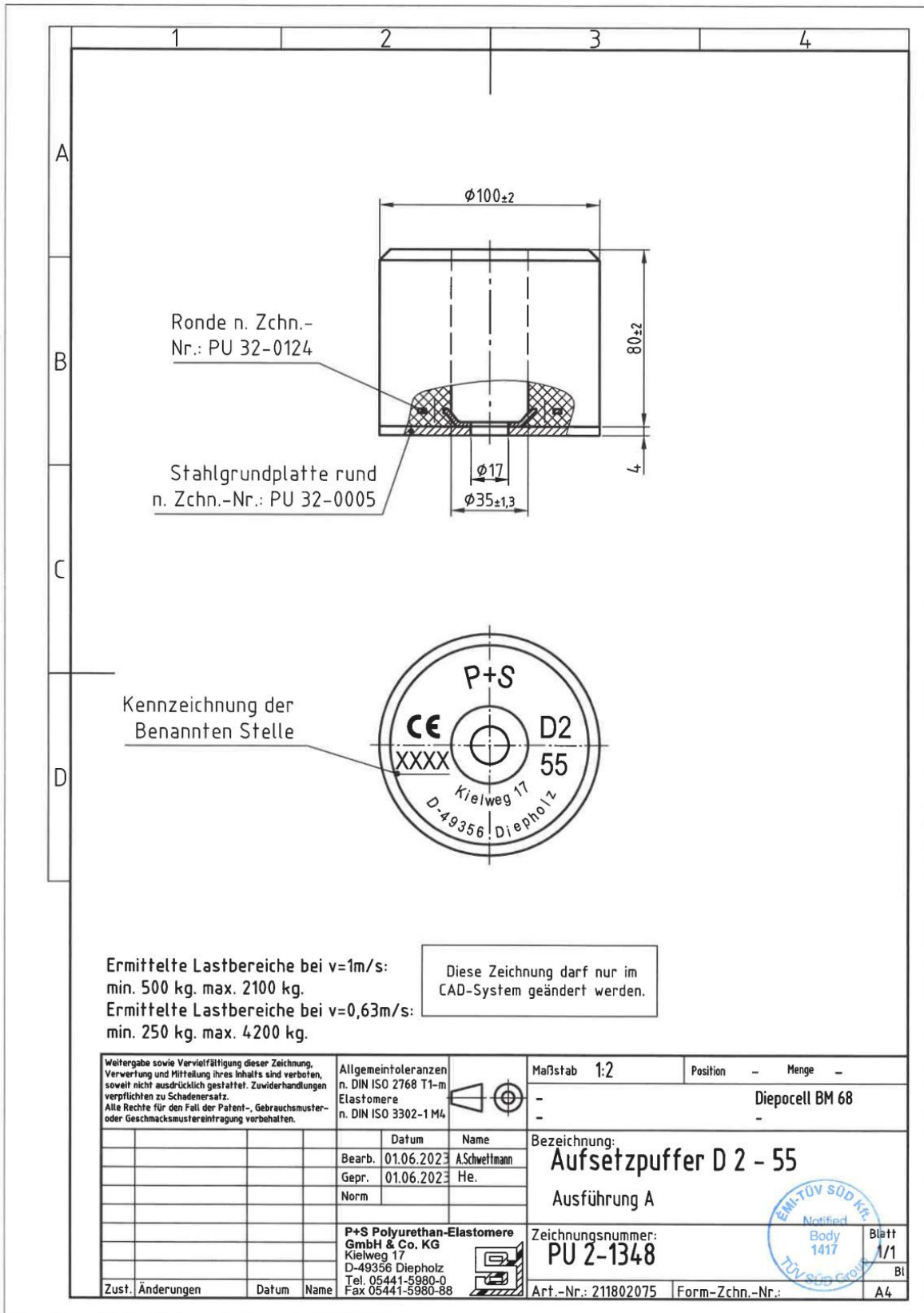
Authorised Manufacturer of Serial Production – Production Sites (valid from: 2023-06-01)  
*Hersteller Serienfertigung – Produktionsstandorte (Stand: 01.06.2023)*

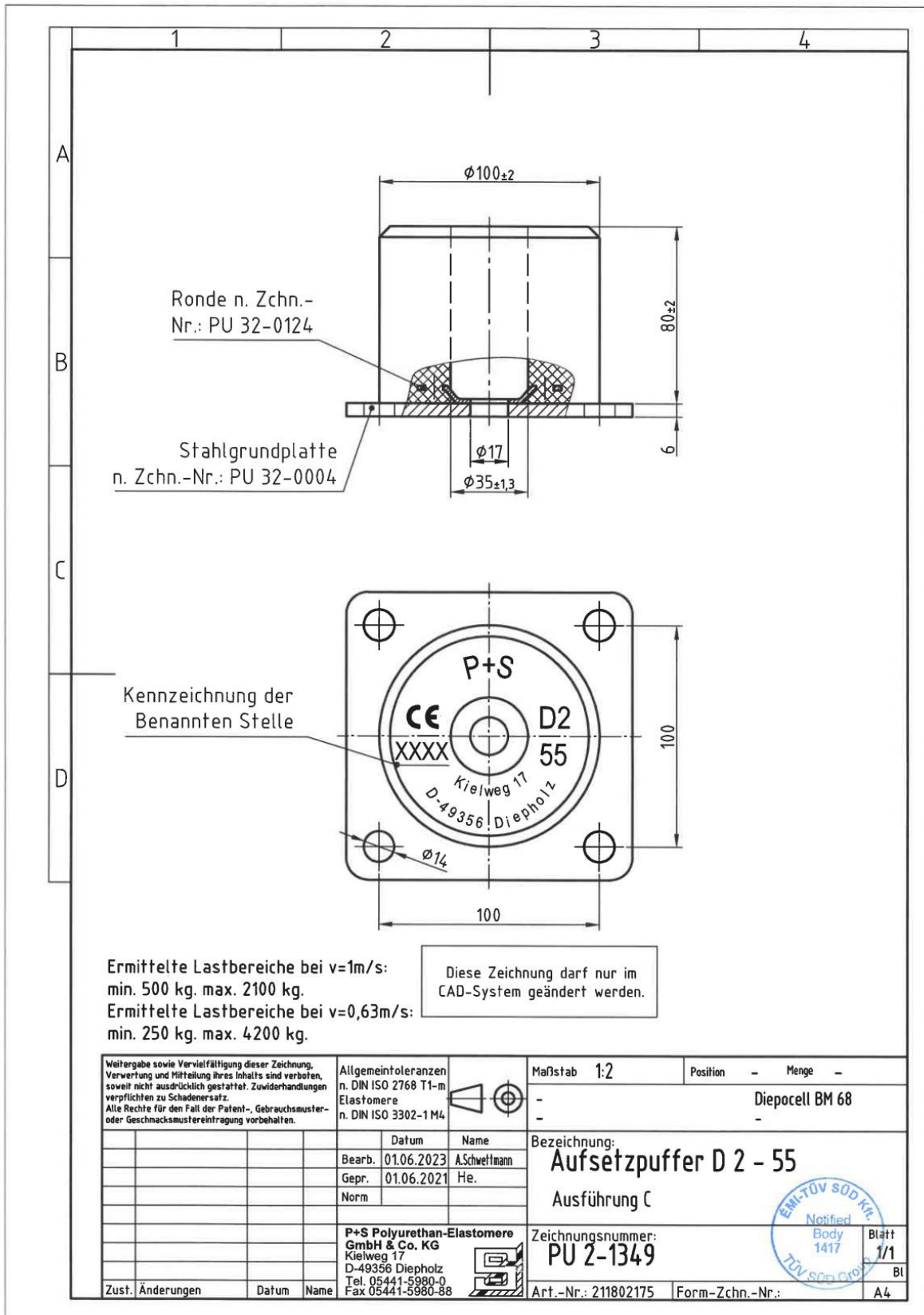
*Company / Firma* P+S Polyurethan-Elastomere GmbH & Co. KG

*Address / Adresse* Kielweg 17  
D-49356 Diepholz – Germany

-END OF DOCUMENT-  
- Ende des Dokuments -

Annex to the EU type-examination certificate F-0538/2022  
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# EU Declaration of Conformity

## for P+S lift buffers:

D series  
D-55 series  
D-85 series

### Subject:

Attachment type A:  
Attachment type C:  
Attachment type D:

**Lift buffer attachment type A, C, D**  
with round steel plate  
with square steel plate  
with foamed-in insert

### Components:

Buffer element:  
Base plate / foamed-in inserts:

Diepocell® BM  
Steel

**We hereby declare that the type of construction correspond with the relevant provisions of the energy-accumulating lift buffers with non-linear characteristic of the Lifts Directive 2014/33/EU .**

Notified inspection body for the implementation of the EU type examination Test according to Annex IV, Part A of Directive 2014/33/EU:

**EMI-TÜV SÜD Ltd.**  
**NB no.: 1417**

Applied harmonised standards (test basis):

- EN 81 -20:2020  
- EN 81 -50:2020

Notified inspection body to carry out the annual manufacturing site inspection according to Annex IX (Module C2) of Directive 2014/33/EU:

**TÜV SÜD Industry Service GmbH**  
**NB no.: 0036**

Year of manufacture of the P+S lift buffers:

**2025**

Additional attachments:

- Overview of the certificate numbers and load ranges  
- TÜV type conformity  
- General note on the amendment of the certificates and the appointed body

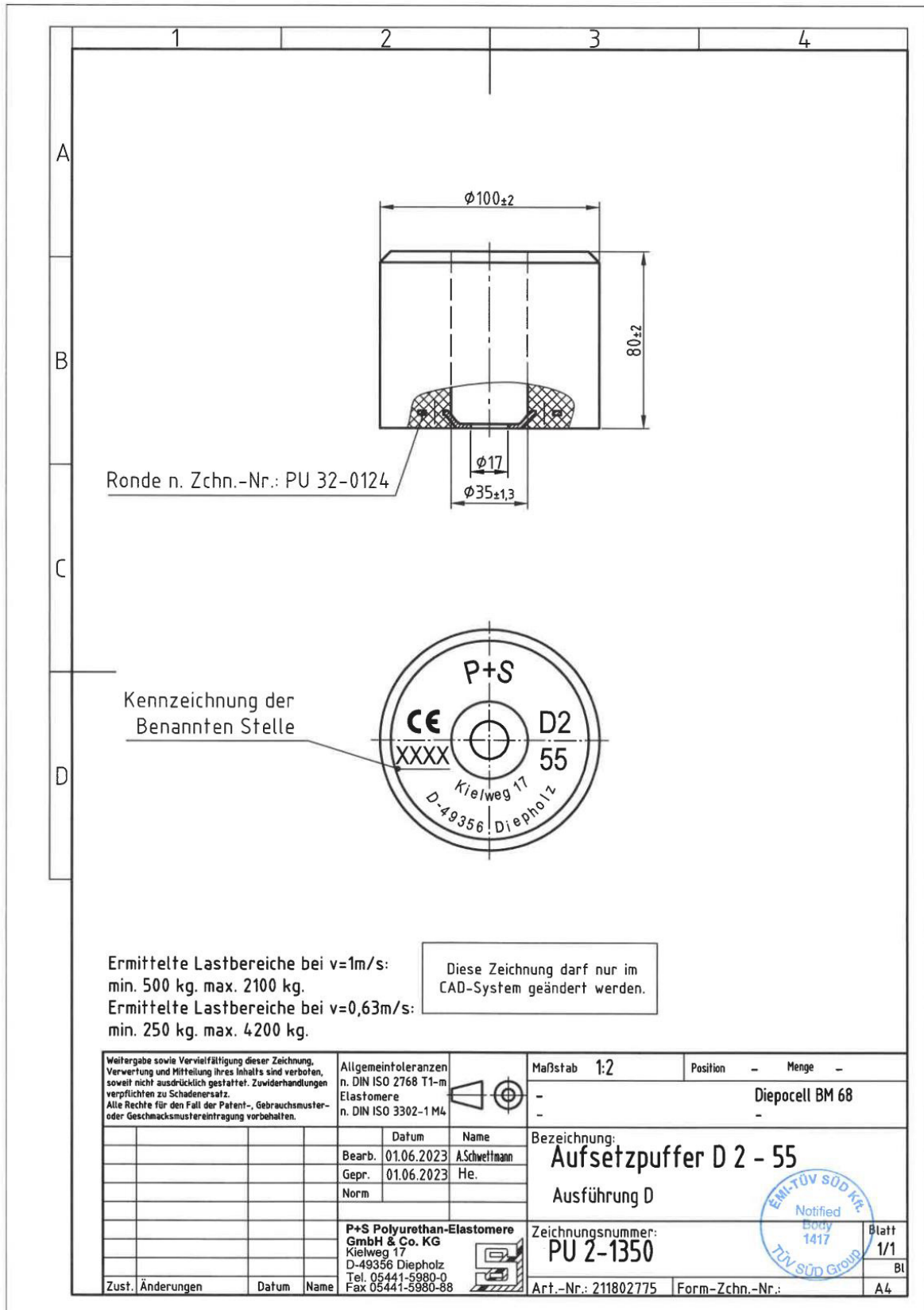
Date: **01/02/2025**

  
S.Kemp

Signature

  
J. Bleick

00/6-20 VK 15.05.2023

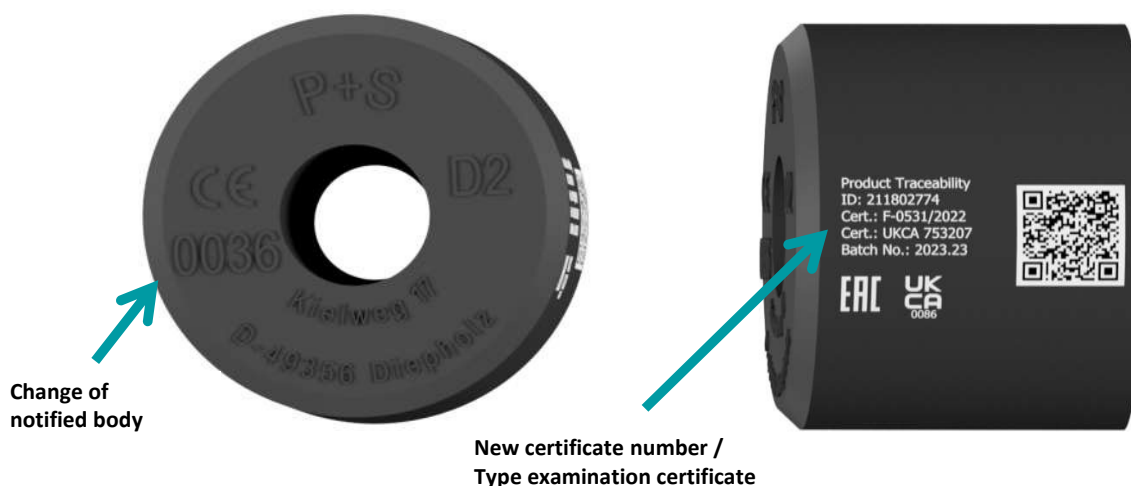


# General note

TÜV SÜD will replace TÜV Nord Cert GmbH as the long-standing testing body for the D series P+S lift buffers.

This change means that there are new certificates and certificate numbers for the known buffers of our D series.

In addition, the annual production site monitoring will also be carried out by TÜV SÜD in the future, which means that the marking on the buffer head will change from "0044" to "0036".



**The changeover of production will take place in week 23 / 2023.**

## What does this mean for you specifically?

- The marking on the buffer head changes from CE 0044 to CE 0036
- The certificate numbers in the engraving on the side of the buffer shall be adjusted
- Item numbers, technical properties, as well as load ranges remain unchanged
- Stocks with old marking "0044" can still be used

## Instruction manual for lift buffers distributed by ETN

Bumpers are used as spring and damping elements in lift construction. Depending on the type of lift (with or without throttle or throttle check valve), lift buffers made of cellular polyurethane are used in various dimensions for maximum and minimum application ranges. The load ranges are documented for the individual buffer types in the EU type tests.

Lift buffers are manufactured with various fastening options.

The lift buffers can be arranged individually, side by side or against each other. The following must be observed for mounting:

### Arrangement side by side:

The distance between the buffer outer surfaces must be at least 40% of the buffer diameter to prevent friction losses and contact at max. deflection.

### Arrangement against each other:

The vertical centre offset of the buffers meeting each other must not be more than 10% of the buffer diameter to prevent buckling. Otherwise, force absorption is no longer guaranteed. With this arrangement, only buffers of the same diameter may be used.

The mating surface of the buffer must be flat; if several buffers are arranged, this surface must be horizontal to ensure an even load on the individual buffers.

The size is to be determined by the lift manufacturer. A full-surface contact of the buffers with the counter-pressure surface must always be achieved.

### **Notice:**

**The lift buffers may only be put into operation if it has been determined that the lift system complies with the provisions of the Lifts Directive 2014/33/EU.**

**The buffers must not be subjected to permanent loads and thus must not be used as a support point for repair and maintenance work.**

## Lift buffers corresponding to EN 81 Calculation

Customer  Lift-no.

Operating speed V =  m/s

### 1. Cage + Working load

Number of buffer (n) =

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

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

Buffer-no.

### 2. Counterweight

Number of buffer (n) =

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

Buffer-no.

m = Weight [kg]

F = Cage weight [kg]

Q = Working load [kg]

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

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