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EU Declaration of conformity for ACLA Lift Buffers

Translation of the original Declaration of Conformity

Article number	Material	EU-Type-examination Certificate	Main dimensions of elastic part
300400A	AUTAN [®] HE	EU-B 137	Ø 80 x 81 mm
300401A	AUTAN [®] HE	EU-B 139	Ø 101 x 80 mm
300401B	AUTAN [®] HE	EU-B 140	Ø 101 x 80 mm
300402A	AUTAN [®] HE	EU-B 142	Ø 128 x 82 mm
300403A	AUTAN [®] HE	EU-B 145	Ø 167 x 81 mm
300404A	AUTAN [®] HE	EU-B 146	Ø 223 x 82 mm
300178A	AUTAN [®] HE	EU-B 143	Ø 129 x 103 mm
300183A	AUTAN [®] HE	EU-B 144	Ø 142 x 101 mm
300335A	AUTAN [®] HE	EU-B 138	Ø 81 x 120 mm
300405A	AUTAN [®] HE	EU-B 141	Ø 101 x 163 mm
300400L	AUTAN [®] HE	EU-B 147	Ø 80 x 80 mm
300401M	AUTAN [®] HE	EU-B 148	Ø 100 x 80 mm
300401L	AUTAN [®] HE	EU-B 149	Ø 100 x 80 mm
300402L	AUTAN [®] HE	EU-B 150	Ø 125 x 80 mm
300403L	AUTAN [®] HE	EU-B 152	Ø 165 x 80 mm
300404L	AUTAN [®] HE	EU-B 153	Ø 220 x 80 mm
300419L	AUTAN [®] HE	EU-B 151	Ø 140 x 80 mm

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EU Declaration of conformity for ACLA Lift Buffers

Translation of the original Declaration of Conformity

300XXXX1 Type A: round steel plate 300XXXX3 Type C: square steel plate

mounting type: 300XXXX4 Type D: foamed–in perforated steel sheet

300XXXX5 Type AD: round steel plate plus additionally foamed-in perforated plate 300XXXX6 Type CD: square steel plate plus additionally foamed-in perforated plate

Mounting types 5 and 6 are only for L and M buffers

year of manufacture: as specified on the buffer

safety component according to:

point 4. a) i) of annex III to directive 2014/33/EU

Energy-storing buffer with non-linear characteristic

compliance with harmonized EN 81-20:2020

standards: EN 81-50:2020

further relevant documents: TB 282.05 ACLA Operational Instructions

type-examination notified body 0036 TÜV SÜD Industrie Service GmbH, Westendstr.199,

was effected by: D-80686 München

certificate of conformity to type

according to:

annex IX (Module C 2) to the directive 2014/33/EU

issued by:: notified body 0036 TÜV SÜD Industrie Service GmbH, Westendstr.199,

D-80686 München

This lift buffers complies with the relevant harmonisation rules of the European Union.

76.11

Cologne, 28.06.2022

ACLA-WERKE GMBH
Dipl.-Kfm. Gerhard Kieffer
CEO

Frankfurter Straße 142-190 D-51065 Köln



Technical Sheets 337.06 D

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page 1 of 1

Load/Deflection Curve for ACLA® Lift Buffers of AUTAN® HE

Buffer group 300405A...

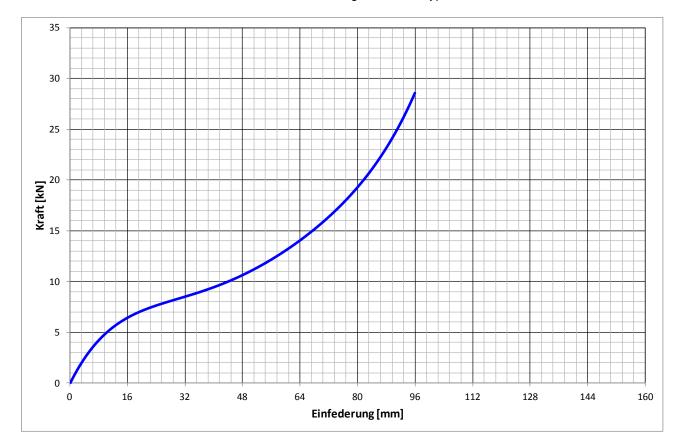
300405A ↓ ↓ ↓ 300405A

elastic base: Ø101/35 x 163 mm, AUTAN® HE, density A

1 mounting type 1 = type A, round steel plate 3 mounting type 3 = type C, square steel plate

mounting type 4 = type D, foamed-in perforated plate

XX code for model details, no meaning for the EC type-test certificate



curve of first deflection, measured with 100 mm/min. Individual curves may vary from the ideal curve within the admissible diffusion.

Tech. Sheets 337.06 E, 09/2015

Our verbal or written recommendations for any application as well as tests are carried out to the best of our knowledge. They are without engagement also as far as patent rights of third parties are concerned, and do not exempt you from checking the products supplied by us to their suitability for the intended procedure and purpose. Application, use and processing of the products are outside our control, and are exclusively the responsibility of the customer. Moreover our general sales conditions apply. This data sheet replaces all previous sheets. As it is not subject to any updating service the user has to check for relevance, whenever necessary.

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Technical Sheets 341.06 E

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edition: 09/2015 page 1 of 2

ACLA® Lift Buffers of AUTAN® HE Expansion and supporting surface during deflection

Buffer group 300405A...

300405A ↓ ↓ ↓

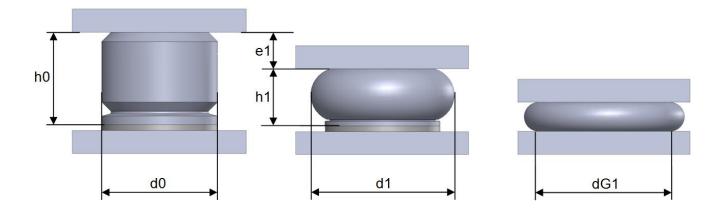
300405A elastic base: Ø101/35 x 163 mm, AUTAN® HE, density A

mounting type 1 = type A, round steel plate 3

mounting type 3 = type C, square steel plate mounting type 4 = type D, foamed-in perforated plate

ΧХ code for model details, no meaning for the EC type-test certificate

Considering a compression of the buffer from its inital diameter d0 and an elastic height h0 by a spring displacement e1 to the remaining height h1, the buffer will be expanded convexly to diameter d1. In case of a strong deformation the expanded area will rest on the counter-pressure plates on diameter dG1.



The following curve shows some values for the expanded buffer diameter and the diameter of the supporting surface depending from the deflection.

These are just reference values which may vary within the admissible diffusions depending on external conditions and preload of the buffer.

The deflection values acc. to lines (1)(2)(3) correspond roughly with the values reached at the loads shown in the additional field of the curve.

This Technical Sheet has only orientating character and is just intended to support the lift constructor. It is not suitable for a quality control of the buffers.

Our verbal or written recommendations for any application as well as tests are carried out to the best of our knowledge. They are without engagement also as far as patent rights of third parties are concerned, and do not exempt you from checking the products supplied by us to their suitability for the intended procedure and purpose. Application, use and processing of the products are outside our control, and are exclusively the responsibility of the customer. Moreover our general sales conditions apply. This data sheet replaces all previous sheets. As it is not subject to any updating service the user has to check for relevance, whenever necessary.

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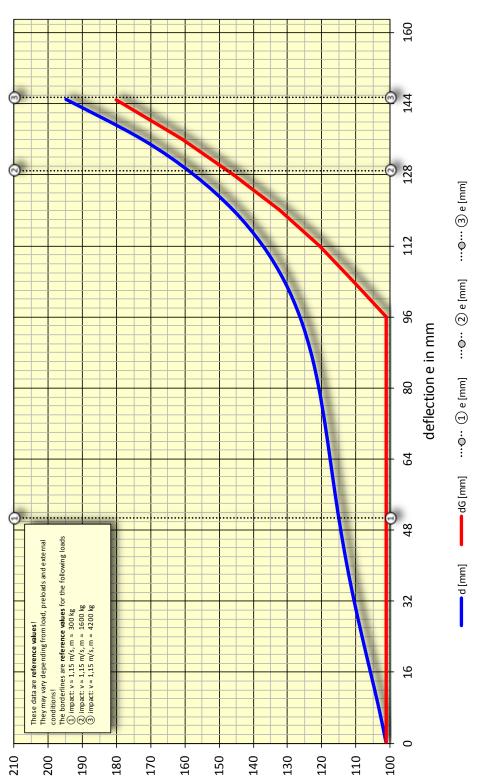


Technical Sheets 341.06 E

edition: 09/2015 page 1 of 2

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buffer group 300405Axxx, AUTAN HE, Ø101/35 x 163/..., density AApproximate values: Expanded diameter d and supporting surface dG at compression e



diameter d and dG in mm

.0000

required.

dG1 = 147 mm rests on the counter-pressure surface and the expanded diameter d1 is 159 mm. The buffer requires radially a free space of (159 - 101) / 2 = 29 mm and a counter-pressure surface of a 147 mm for free deflection. Twice the distance between 2 of the same buffers is As described in line ② there is an impact of 1600 kg at 1,15 m/s. This results in a deflection of e1 = 129 mm up to line ②. Buffer diameter