

Impact buffers

made of Diepocell®

Standard Range of Impact buffers

Impact buffers made of the cellular polyurethane elastomere Diepocell® are available from a standard range of products. They are used in general mechanical engineering and in the construction of cranes. The buffers are supplied with a central mounting or square fixing plate. Dimensions are given in the tables on the pages 3, 4 and 5.

Our standard range of buffers have a specific gravity of 0,5 to 0,55 g/cm³ and are mainly available from stock. Other hardness may be produced on request depending on the field of application. For each diameter of buffer there are different heights available in the following diameter to height ratios:
1:0,5 (buffer size 1, cylinder shape)
1.1 (buffer size 2, conical shape)
1:1,5 (buffer size 3, cylinder shape)

The impact surface of size 2 buffers upto 200 mm are smooth. The buffer sizes of 1 and 3 are studded.

Diameter sizes larger than 250 mm are generally studded. The studding provides grip enabling slip-free impact. The working capacity and impact forces of each buffer may be taken from the table on page 8 or from the curves on the pages 9 to 19. If the buffers are used for cranes it is possible to arrange one buffer at the crane and one at the end-stop.

This will further reduce the final forces. In order to avoid buckling of the buffer only the following combinations are recommended:

for buffer size 1, counter buffer sizes 1,2,3

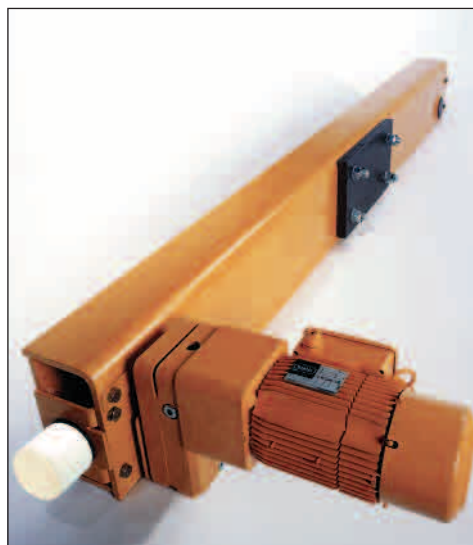
for buffer size 2, counter buffer sizes 1,2

for buffer size 3, counter buffer size 1

Diepocell® is resistant to oil, grease, ozone, UV and ageing. The material can be used within a temperature range of -20°C to +80°C. Short temperature peaks of upto 100°C do not impair the material. At -20°C a hardening of the material will occur which has, however, no negative effects on the consistency of the material.

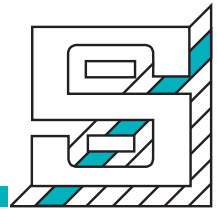
For mounting note clearance:

1. max. buffer compression (70%)
2. max. cross extension upto 40% of buffer dia.
3. counter surface of buffer made of tear plate and min. 1,2 x buffer dia. in case there is no cellular plastic buffer of same dia. used as counter buffer.



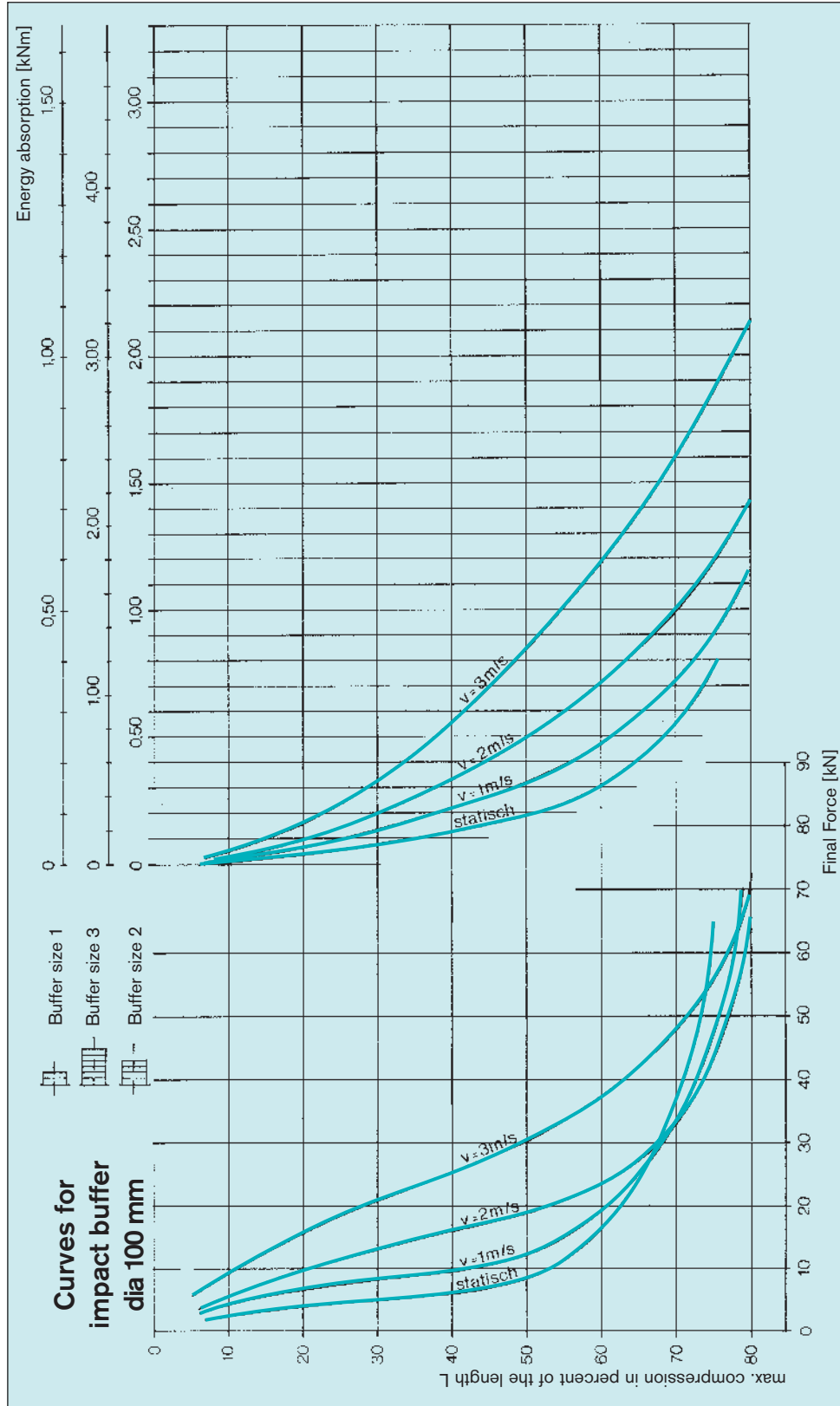
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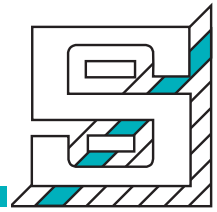
P+S Polyurethan-Elastomere

Curves for Diepocell® - Impact buffers



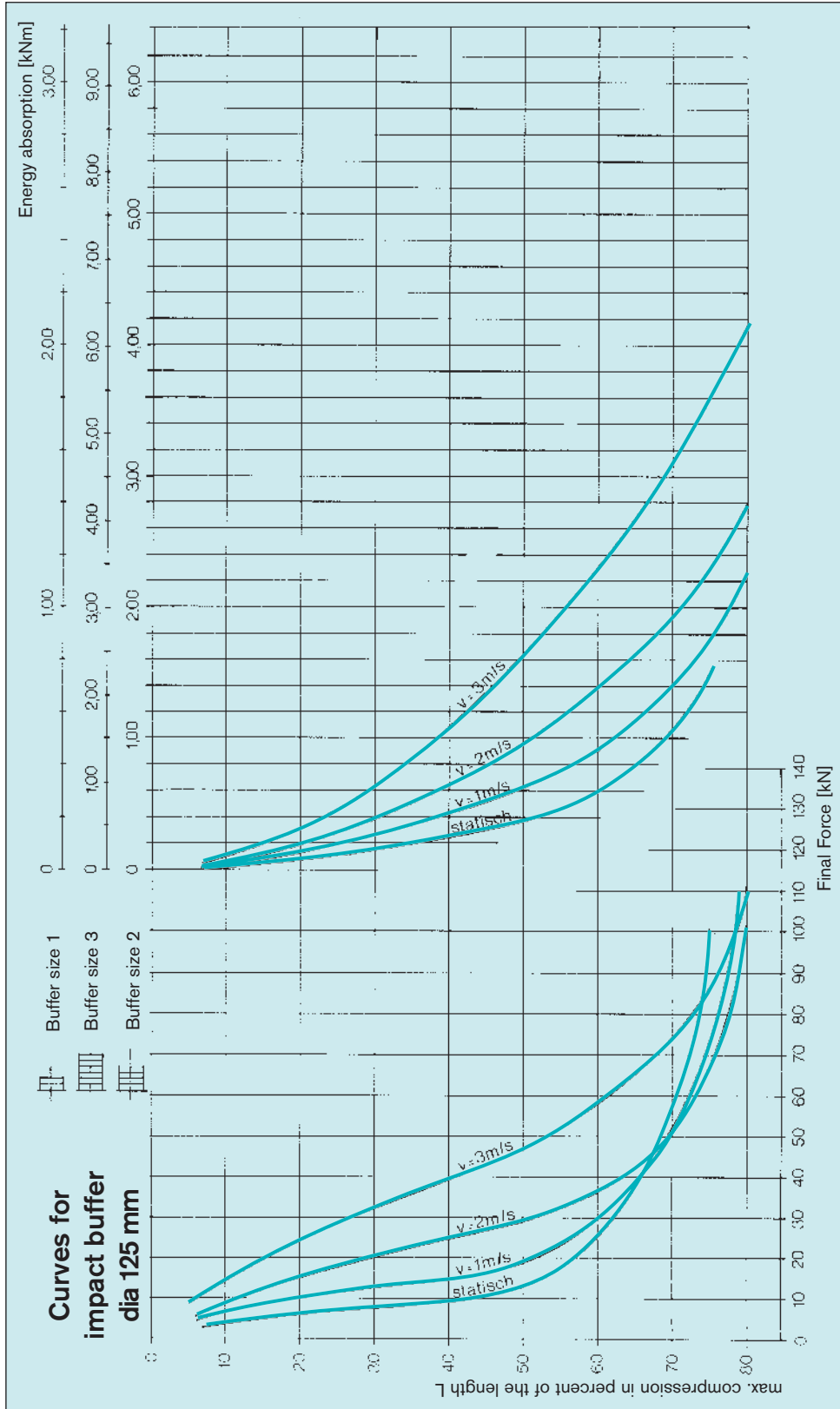
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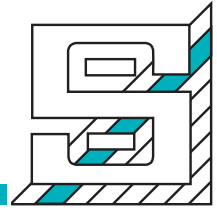
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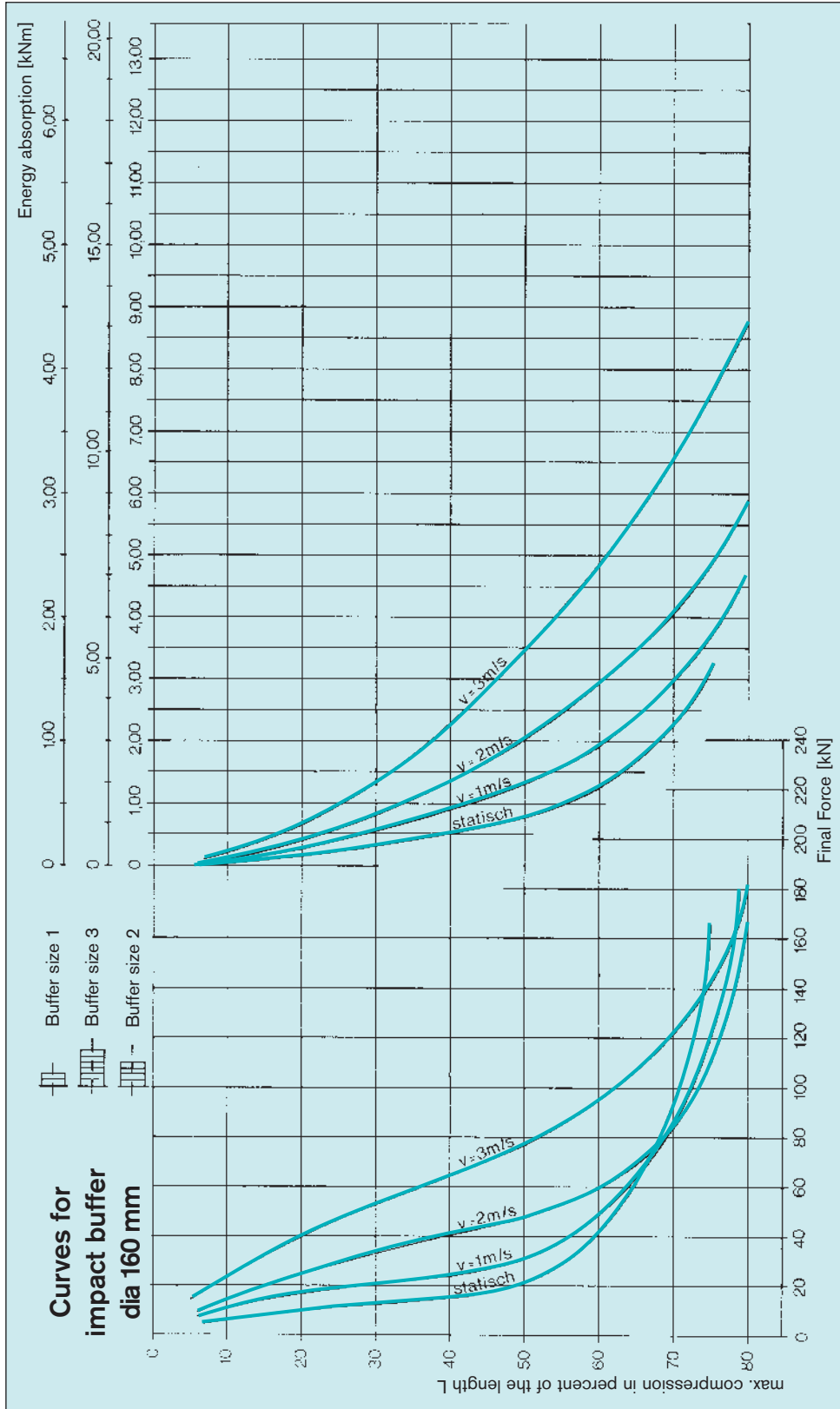
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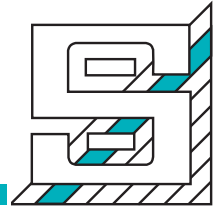
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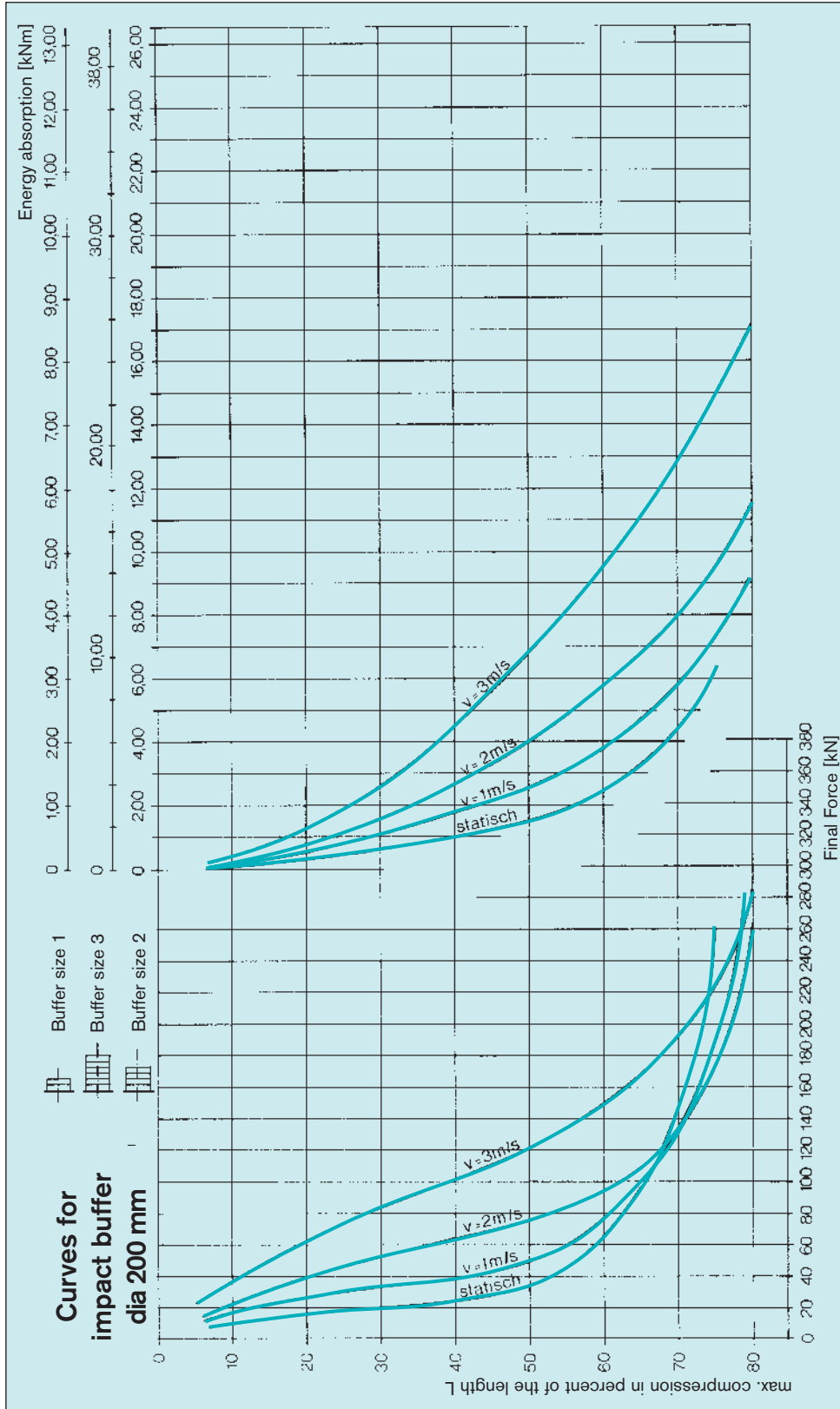
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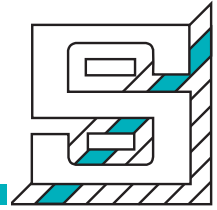
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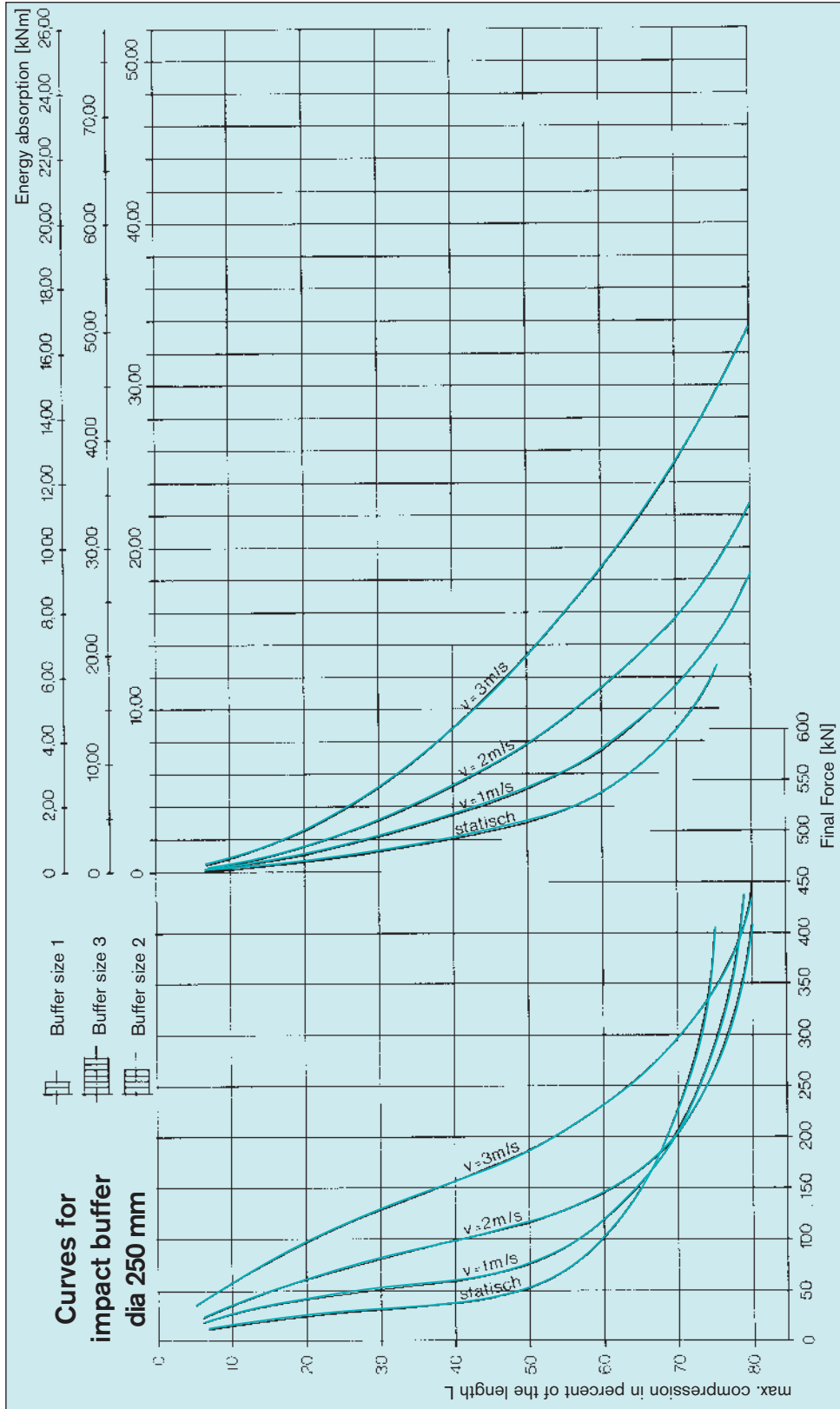
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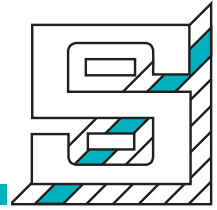
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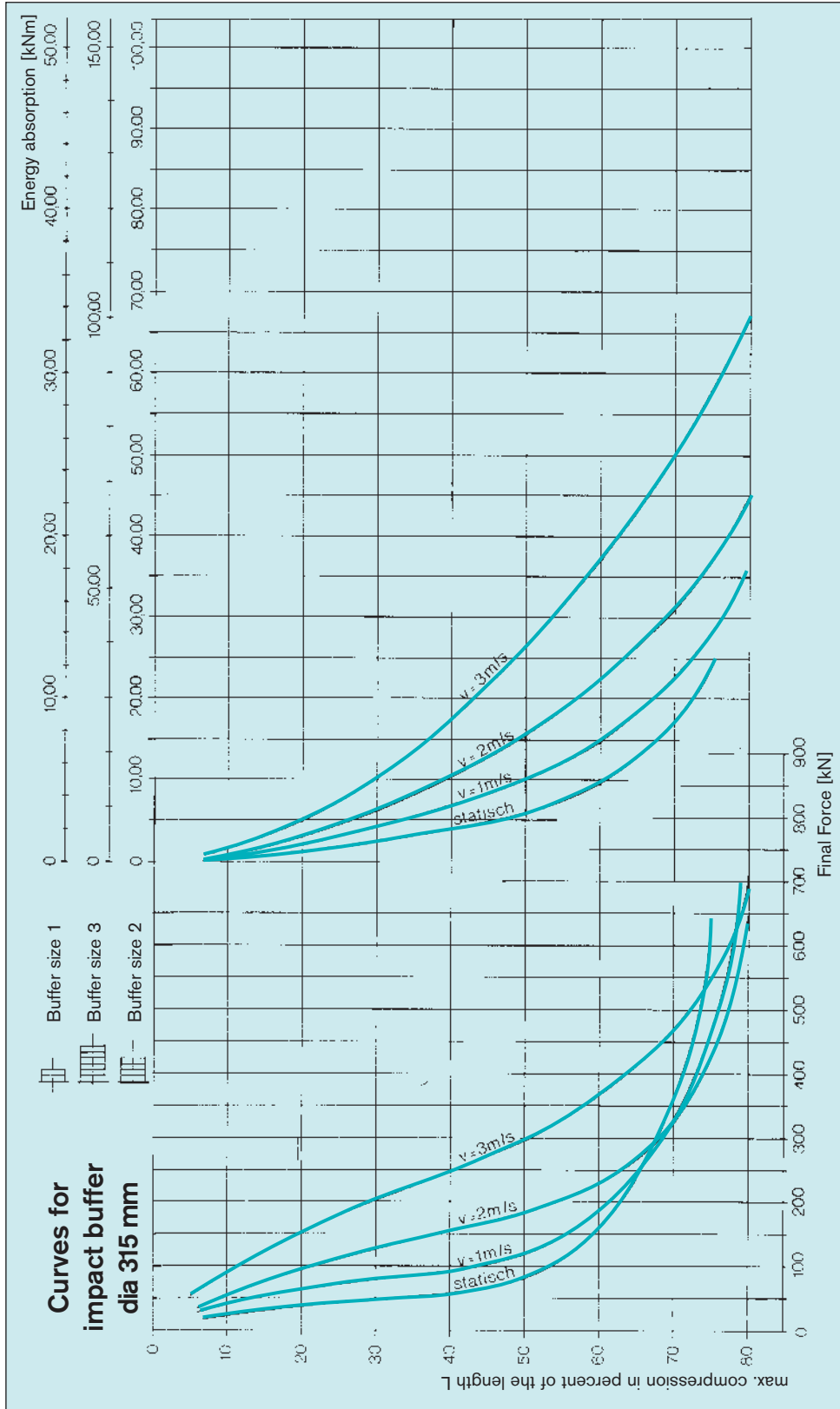
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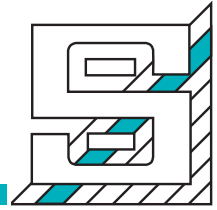
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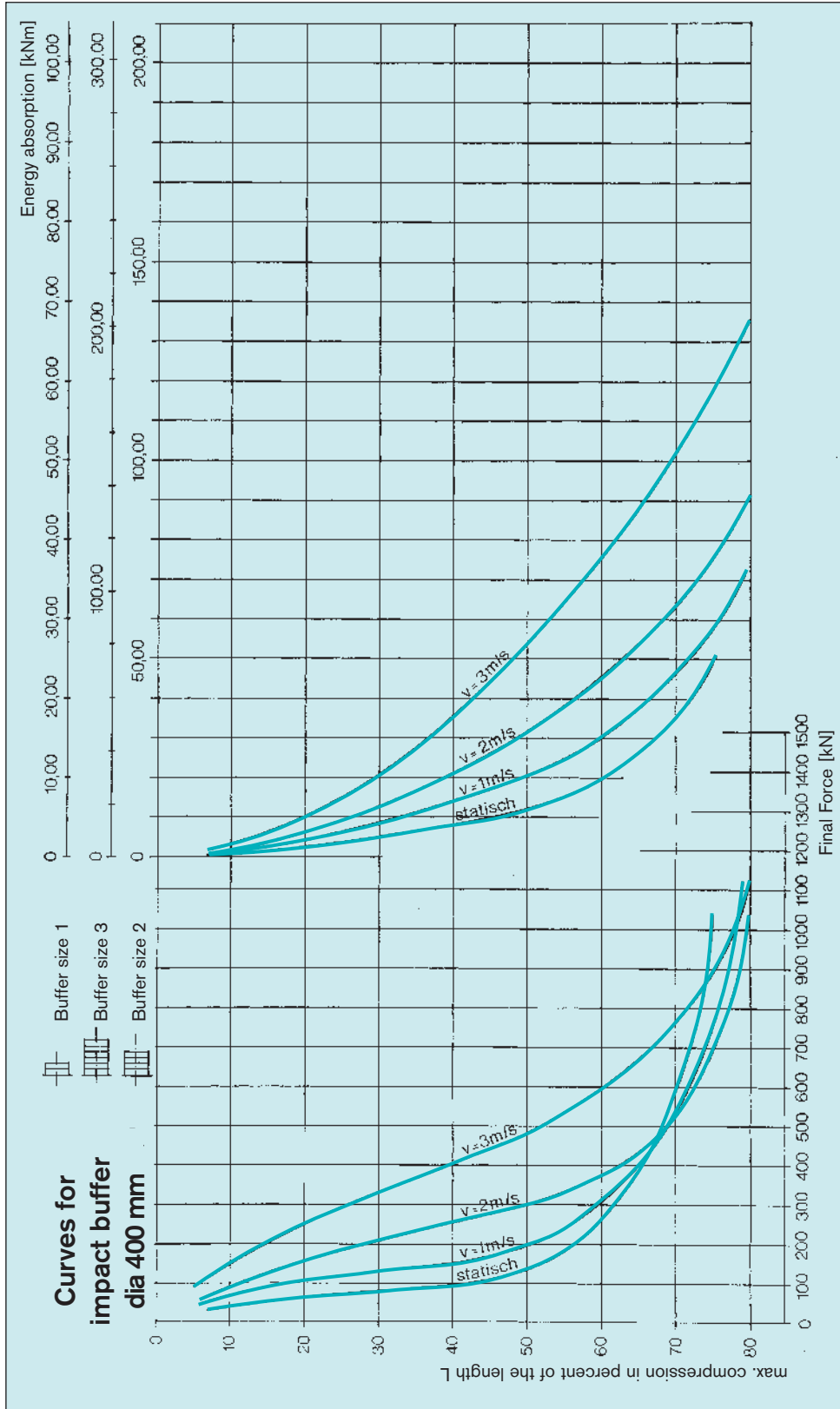
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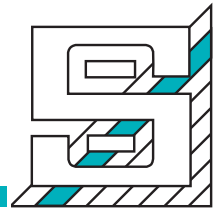
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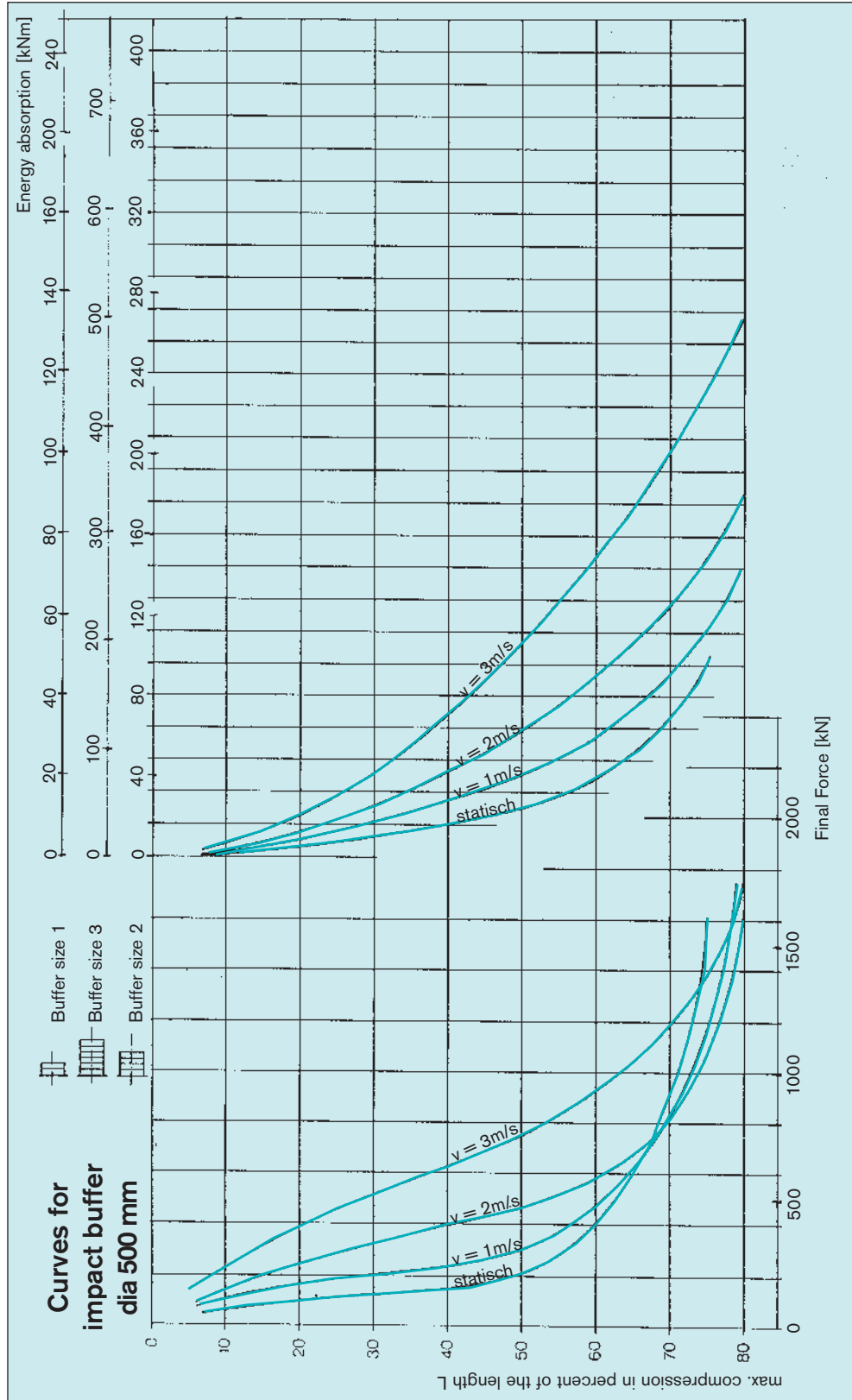
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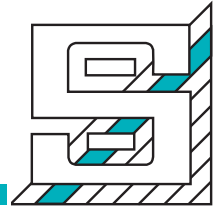
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