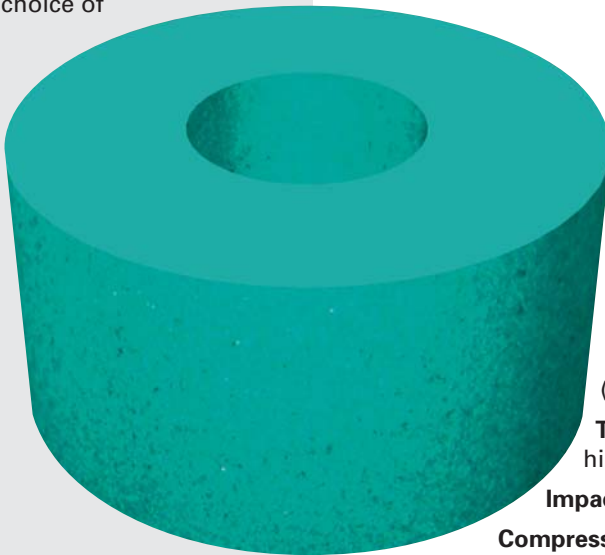
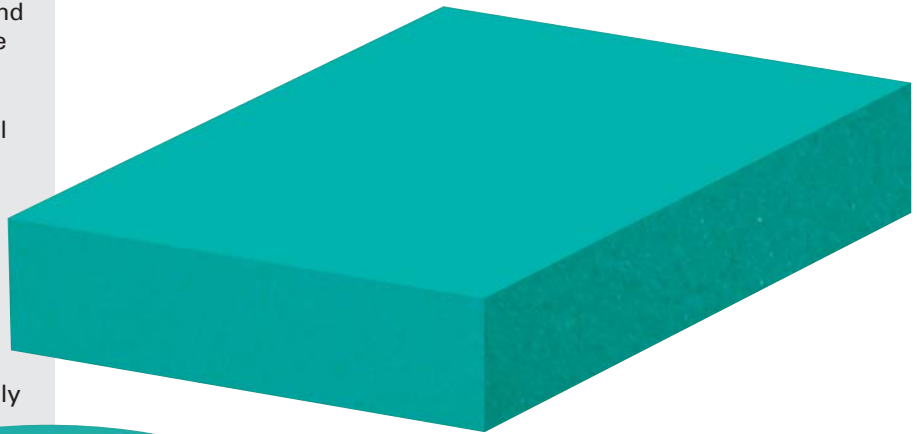


SLAB damping plates of the SL-030, SL-100 and SL-300 series are visco-elastic PUR materials that are manufactured according to a patented formula and which were especially designed to absorb shock loads. At the same time, the resulting structure-borne noise is effectively reduced.

This material is characterized by its very high inner damping. The rebound elasticity is around < 30% (Tolerance +/-10%) following DIN 53573.

The result makes this product an alternative to hydraulic end-of-travel damping, if the load doesn't need to be stopped accurately and the energy doesn't have to be reduced by 100%.

The densities of SL-030 = 270 kg/m<sup>3</sup>, SL-100 = 500 kg/m<sup>3</sup> and SL-300 = 800 kg/m<sup>3</sup> cover a wide spectrum of the energy absorption to the applied area. This enables a relatively independent choice of applied area.



**Environment:** resistant against ozone and UV radiation; food-graded according to ENV 1186-3 (also see chemical resistancy pg.18)

**Temperature range:** -30°C to +70°C, short-term higher temperature potential up to 110°C

**Impact velocity range:** max. 5 m/s

**Compression set:** ≤5%, at 50% of compression, 23°C, 70 h, 30 min after unloading, according to EN ISO 1856

**Fire rating:** B2, normally flammable according to DIN 4102

**Standard density:** 270 kg/m<sup>3</sup>, 500 kg/m<sup>3</sup> and 800 kg/m<sup>3</sup>

**Impact resilience:** < 30%, tolerance +/- 10%, according to DIN 53573

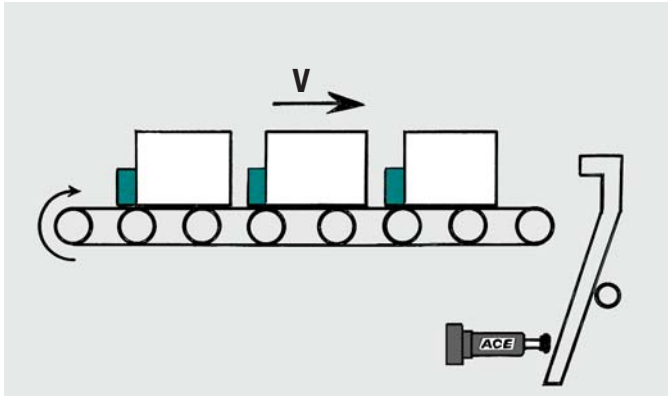
**On request:** available with compact polyurethane wearing surface, shore hardness: 82 shore Sh A

**Possibilities for cutting:** water jet cutting, stamping, splitting, sawing, drilling, etc.

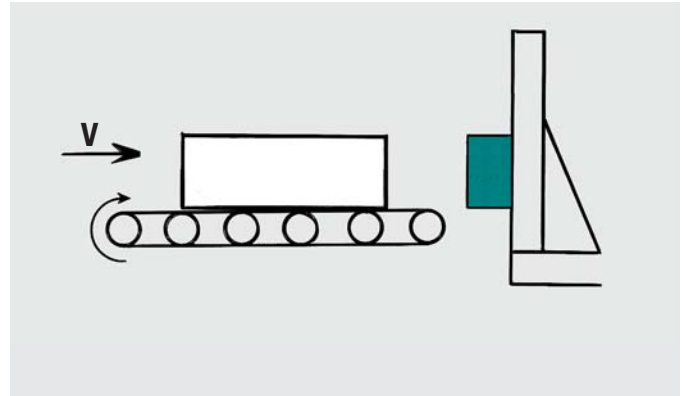
**Mounting style:** Bonding (see adhesive recommendation page 17), clamps, screws, etc.



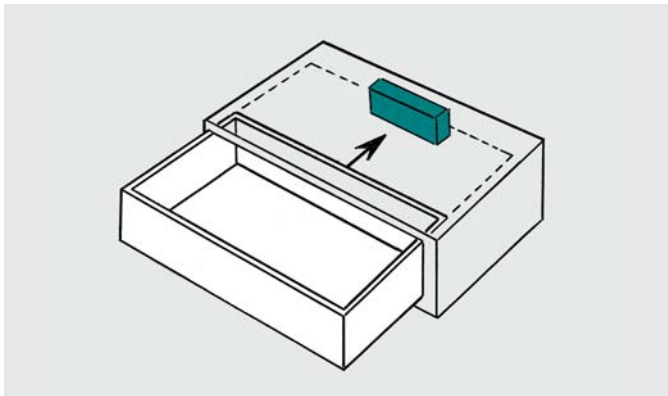
These data are based on the current standard of knowledge. They can be taken as calculation or reference values and are subject to the usual manufacturing tolerances; subject to change.



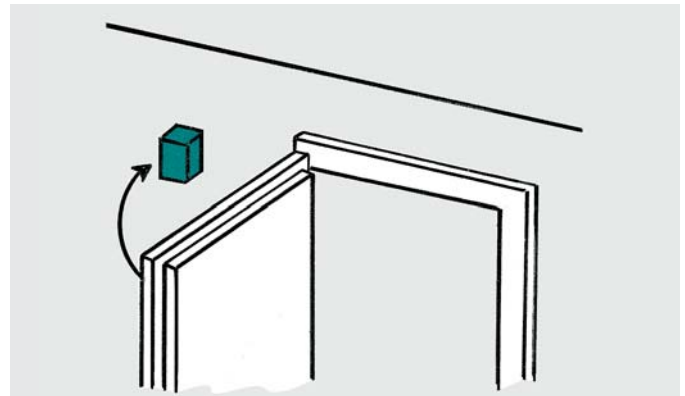
Damping in between Pallets



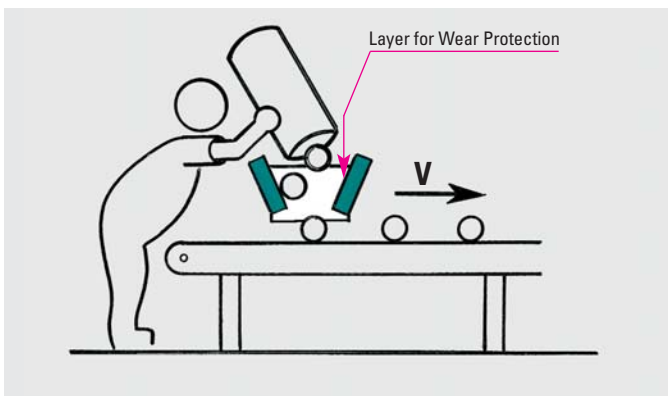
Impact Buffer for Slats, Beams, etc



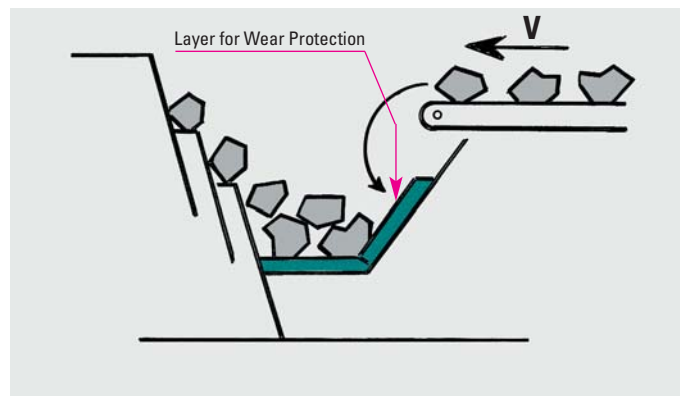
Drawer Damping



Door Stopper, i.e., for Glass Doors



Funnel Tube Lining at Assembly Lines

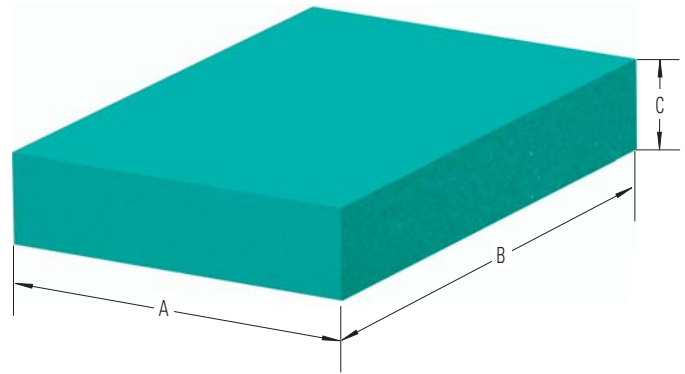


Feed Hopper Lining at Graded Sorter

#### Ordering Example

ACE-SLAB \_\_\_\_\_  
 Material Type \_\_\_\_\_  
 Material Thickness \_\_\_\_\_  
 Dimension/Shape \_\_\_\_\_  
 (is assigned by ACE)

SL-030-12-Dxxxx



#### Technical Data

**Material:** mixed cellular polyether urethane  
**Characteristics:** visco-elastic PUR material with high damping capability  
**Standard Colour:** green  
**Delivery Form:** thickness 12 mm, rolls: 1.5 m wide, 5.0 m long, strips: up to the maximum width and length

Other dimensions (also thickness), colours, shapes and cut-out parts on request.

The chosen damping plate should be tested by the customer on the specific application.

#### Dimensions and Capacity Chart

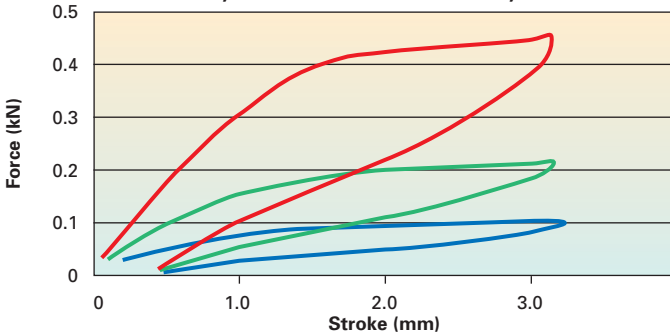
Material Type	W <sub>3</sub> max.* Nm/stroke	Stroke Utilization* mm	A mm	B mm	C mm	Area mm <sup>2</sup>	Density kg/m <sup>3</sup>	Return Time sec.	Weight g
SL-030-12-Dxxxx	2.3 (5.0)	3 (6)	50	50	12	2500	270	approx. 3 (4)	approx. 8
SL-030-12-Dxxxx	4.3 (9.5)	3 (6)	70.7	70.7	12	5000	270	approx. 3 (4)	approx. 17
SL-030-12-Dxxxx	9.5 (19.5)	3 (6)	100	100	12	10000	270	approx. 3 (4)	approx. 34

\* Energy absorption and stroke utilization as well as the below illustrated dynamic curve progression refer to a calculated free falling mass with an impact velocity of 1 m/s. For differing application data, these values can only be used as a reference. The energy absorption depends on the individual impact surface and stroke utilization. The longer the load duration the more the reduction in energy absorption (material fatigue).

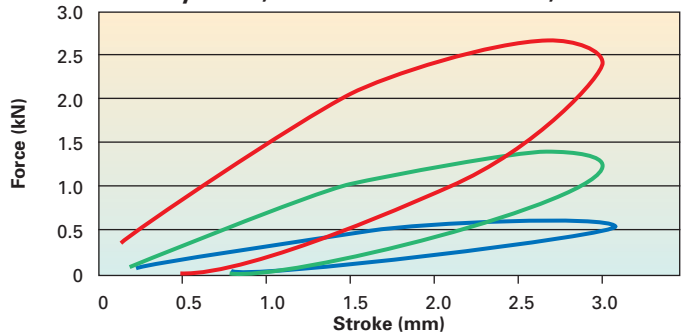
The SL sample set 1.1 includes the 3 above mentioned sample plates. For other dimensions see page 20.

#### Damping Characteristics SL-030-12

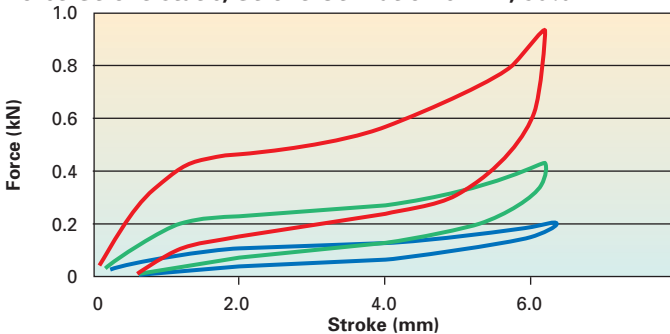
Force-Stroke static, Stroke Utilization 3 mm, 25%



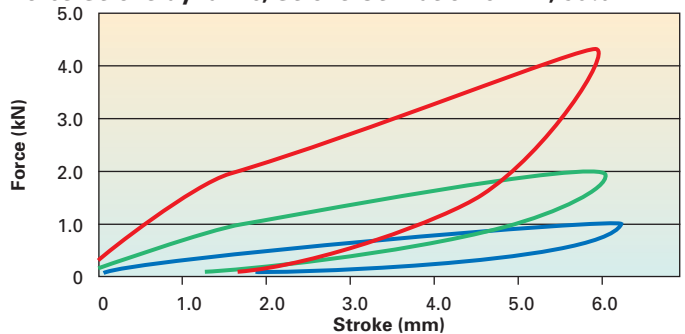
Force-Stroke dynamic, Stroke Utilization 3 mm, 25%



Force-Stroke static, Stroke Utilization 6 mm, 50%



Force-Stroke dynamic, Stroke Utilization 6 mm, 50%



Load data: static, between two level plates,  
 Deformation velocity 1% of the plate thickness / sec.

— Area 10 000 mm<sup>2</sup>  
 — Area 5 000 mm<sup>2</sup>  
 — Area 2 500 mm<sup>2</sup>

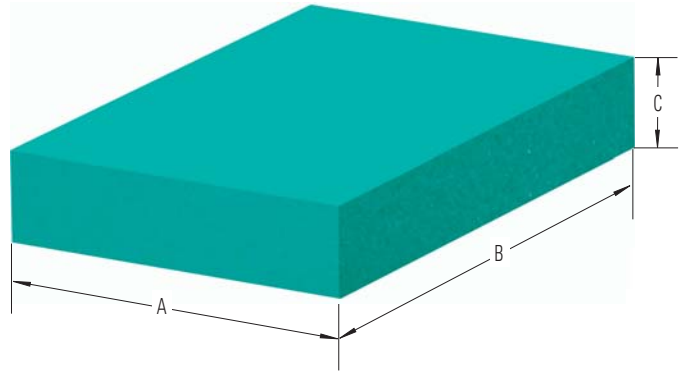
Load data: dynamic, free-falling mass,  
 Impact velocity about 1 m/s.

Issue 8.2006 Specifications subject to change

#### Ordering Example

ACE-SLAB \_\_\_\_\_  
 Material Type \_\_\_\_\_  
 Material Thickness \_\_\_\_\_  
 Dimension/Shape \_\_\_\_\_  
 (is assigned by ACE)

SL-030-25-Dxxxx



#### Technical Data

**Material:** mixed cellular polyether urethane  
**Characteristics:** viscoelastic PUR material with high damping capability  
**Standard Colour:** green  
**Delivery Form:** thickness 25 mm, rolls: 1.5 m wide, 5.0 m long, strips: up to the maximum width and length

Other dimensions (also thickness), colours, shapes and cut-out parts on request.

The chosen damping plate should be tested by the customer on the specific application.

#### Dimensions and Capacity Chart

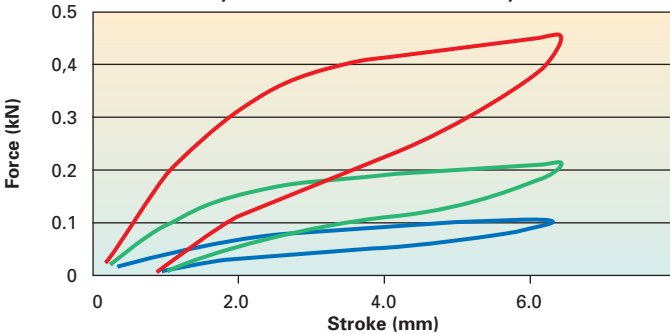
Material Type	W <sub>3</sub> max.* Nm/stroke	Stroke Utilization* mm	A mm	B mm	C mm	Area mm <sup>2</sup>	Density kg/m <sup>3</sup>	Return Time sec.	Weight g
SL-030-25-Dxxxx	3.5 (6.0)	6 (12)	50	50	25	2 500	270	approx. 4 (5)	approx. 17
SL-030-25-Dxxxx	5.7 (11.5)	6 (12)	70.7	70.7	25	5 000	270	approx. 4 (5)	approx. 34
SL-030-25-Dxxxx	11.5 (21.5)	6 (12)	100	100	25	10 000	270	approx. 4 (5)	approx. 68

\* Energy absorption and stroke utilization as well as the below illustrated dynamic curve progression refer to a calculated free falling mass with an impact velocity of 1 m/s. For differing application data, these values can only be used as a reference. The energy absorption depends on the individual impact surface and stroke utilization. The longer the load duration the more the reduction in energy absorption (material fatigue).

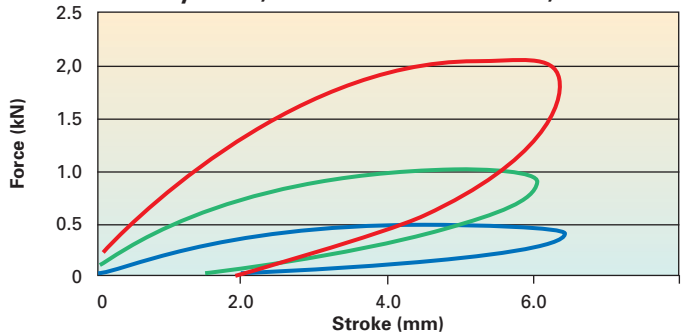
SL sample set 1.2 includes the 3 above mentioned sample plates. For other dimensions see page 20.

#### Damping Characteristics SL-030-25

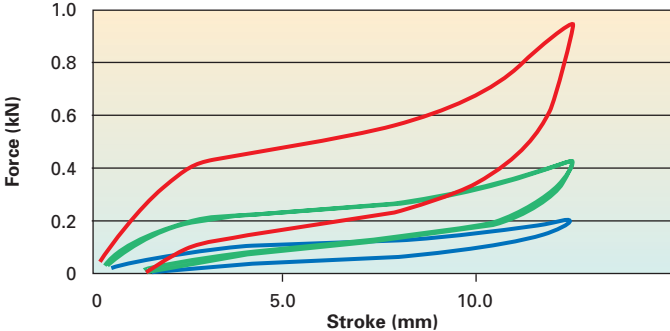
Force-Stroke static, Stroke Utilization 6 mm, 25%



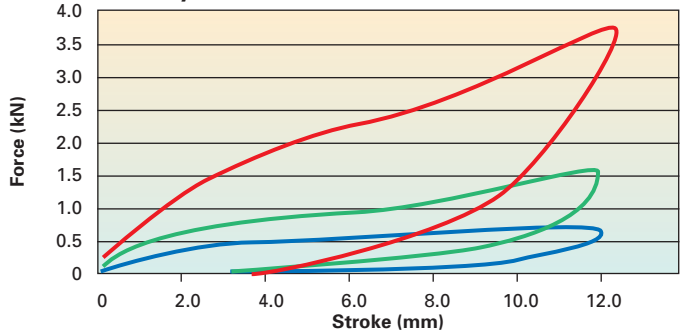
Force-Stroke dynamic, Stroke Utilization 6 mm, 25%



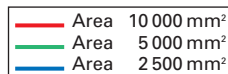
Force-Stroke static, Stroke Utilization 12 mm, 50%



Force-Stroke dynamic, Stroke Utilization 12 mm, 50%



Load data: static, between two level plates,  
 Deformation velocity 1% of the plate thickness / sec.

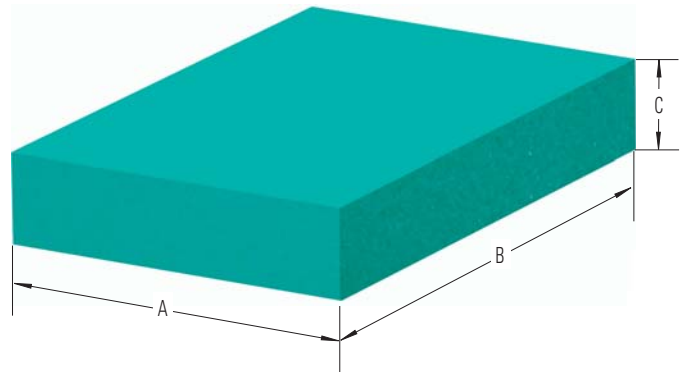


Load data: dynamic, free-falling mass,  
 Impact velocity about 1 m/s.

#### Ordering Example

ACE-SLAB \_\_\_\_\_  
 Material Type \_\_\_\_\_  
 Material Thickness \_\_\_\_\_  
 Dimension/Shape \_\_\_\_\_  
 (is assigned by ACE)

SL-100-12-Dxxxx



#### Technical Data

**Material:** mixed cellular polyether urethane  
**Characteristics:** viscoelastic PUR material with high damping capability  
**Standard Colour:** green  
**Delivery Form:** thickness 12 mm, rolls: 1.5 m wide, 5.0 m long, strips: up to the maximum width and length

Other dimensions (also thickness), colours, shapes and cut-out parts on request.

The chosen damping plate should be tested by the customer on the specific application.

#### Dimensions and Capacity Chart

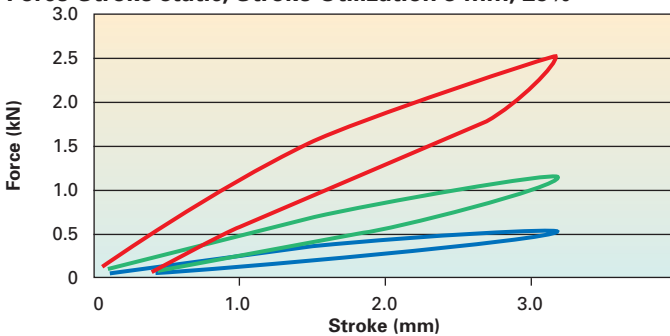
Material Type	W <sub>3</sub> max.* Nm/stroke	Stroke Utilization* mm	A mm	B mm	C mm	Area mm <sup>2</sup>	Density kg/m <sup>3</sup>	Return Time sec.	Weight g
SL-100-12-Dxxxx	4.5 (13.0)	3 (6)	50	50	12	2500	500	approx. 3 (4)	approx. 16
SL-100-12-Dxxxx	11.5 (29.0)	3 (6)	70.7	70.7	12	5000	500	approx. 3 (4)	approx. 31
SL-100-12-Dxxxx	23.0 (75.0)	3 (6)	100	100	12	10000	500	approx. 3 (4)	approx. 63

\* Energy absorption and stroke utilization as well as the below illustrated dynamic curve progression refer to a calculated free falling mass with an impact velocity of 1 m/s. For differing application data, these values can only be used as a reference. The energy absorption depends on the **individual impact surface** and stroke utilization. The longer the load duration the more the reduction in energy absorption (material fatigue).

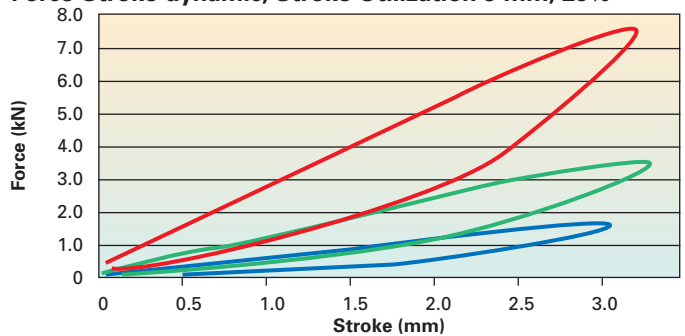
SL sample set 1.3 includes the 3 above mentioned sample plates. For other dimensions see page 20.

#### Damping Characteristics SL-100-12

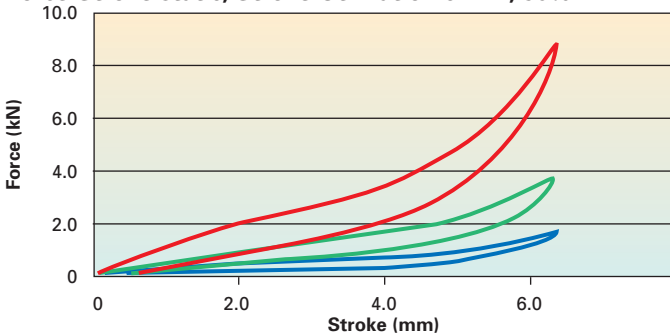
Force-Stroke static, Stroke Utilization 3 mm, 25%



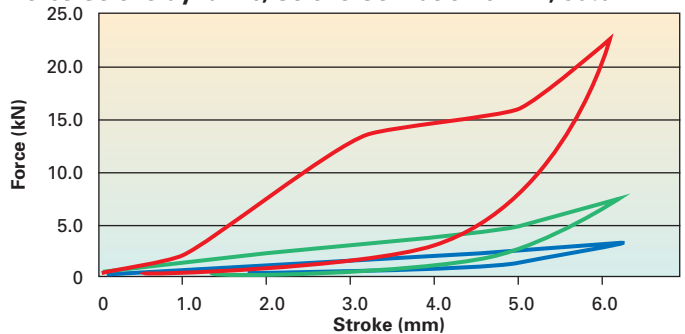
Force-Stroke dynamic, Stroke Utilization 3 mm, 25%



Force-Stroke static, Stroke Utilization 6 mm, 50%



Force-Stroke dynamic, Stroke Utilization 6 mm, 50%



Load data: static, between two level plates,  
 Deformation velocity 1% of the plate thickness / sec.

— Area 10 000 mm<sup>2</sup>  
 — Area 5 000 mm<sup>2</sup>  
 — Area 2 500 mm<sup>2</sup>

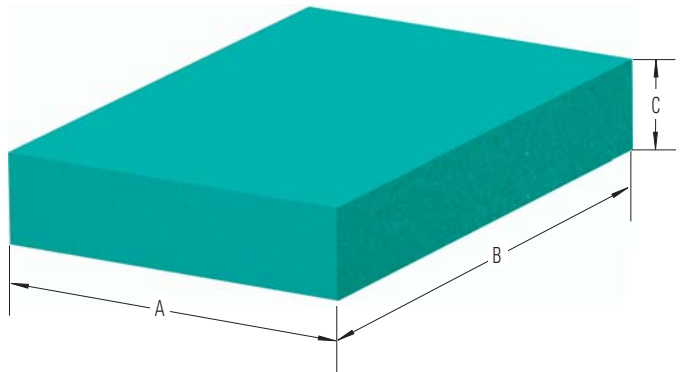
Load data: dynamic, free-falling mass,  
 Impact velocity about 1 m/s.

Issue 8.2006 Specifications subject to change

#### Ordering Example

ACE-SLAB \_\_\_\_\_  
 Material Type \_\_\_\_\_  
 Material Thickness \_\_\_\_\_  
 Dimension/Shape \_\_\_\_\_  
 (is assigned by ACE)

SL-100-25-Dxxxx



#### Technical Data

**Material:** mixed cellular polyether urethane  
**Characteristics:** viscoelastic PUR material with high damping capability  
**Standard Colour:** green  
**Delivery Form:** thickness 25 mm, rolls: 1.5 m wide, 5.0 m long, strips: up to the maximum width and length

Other dimensions (also thickness), colours, shapes and cut-out parts on request.

The chosen damping plate should be tested by the customer on the specific application.

#### Dimensions and Capacity Chart

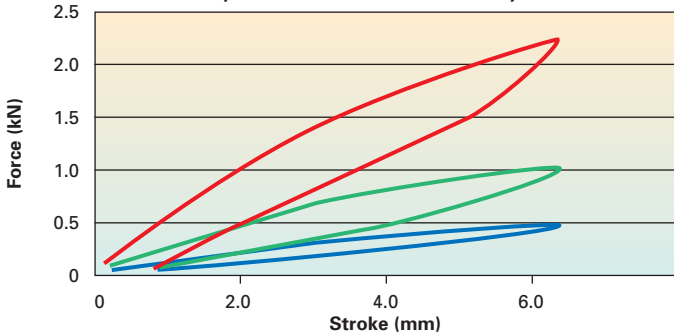
Material Type	W <sub>3</sub> max.* Nm/stroke	Stroke Utilization* mm	A mm	B mm	C mm	Area mm <sup>2</sup>	Density kg/m <sup>3</sup>	Return Time sec.	Weight g
SL-100-25-Dxxxx	5.7 (14.5)	6 (12)	50	50	25	2 500	500	approx. 4 (5)	approx. 31
SL-100-25-Dxxxx	11.5 (33.0)	6 (12)	70.7	70.7	25	5 000	500	approx. 4 (5)	approx. 62
SL-100-25-Dxxxx	28.5 (90.0)	6 (12)	100	100	25	10 000	500	approx. 4 (5)	approx. 125

\* Energy absorption and stroke utilization as well as the below illustrated dynamic curve progression refer to a calculated free falling mass with an impact velocity of 1 m/s. For differing application data, these values can only be used as a reference. The energy absorption depends on the individual impact surface and stroke utilization. The longer the load duration the more the reduction in energy absorption (material fatigue).

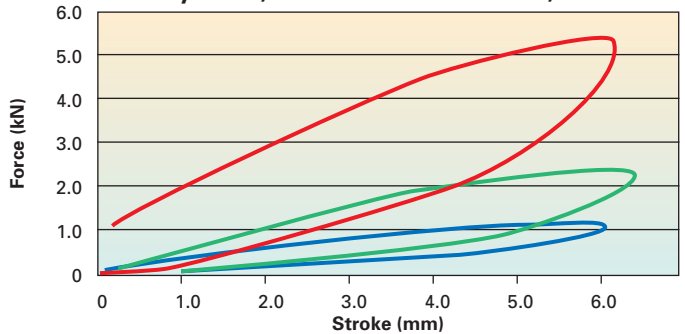
SL sample set 1.4 includes the 3 above mentioned sample plates. For other dimensions see page 20.

#### Damping Characteristics SL-100-25

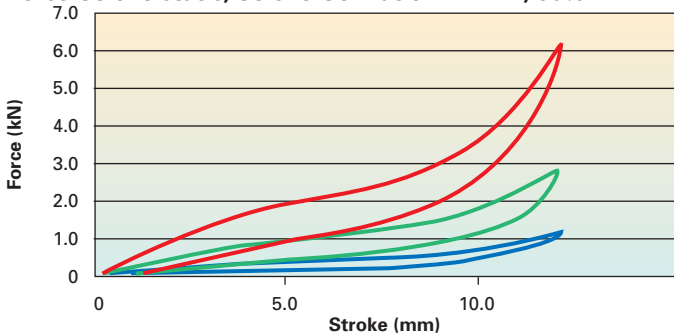
Force-Stroke static, Stroke Utilization 6 mm, 25%



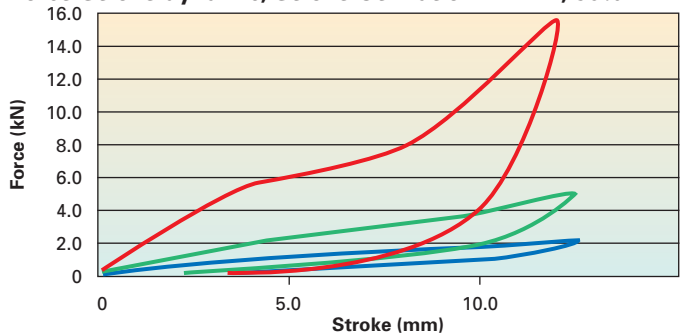
Force-Stroke dynamic, Stroke Utilization 6 mm, 25%



Force-Stroke static, Stroke Utilization 12 mm, 50%



Force-Stroke dynamic, Stroke Utilization 12 mm, 50%



Load data: static, between two level plates,  
 Deformation velocity 1% of the plate thickness / sec.

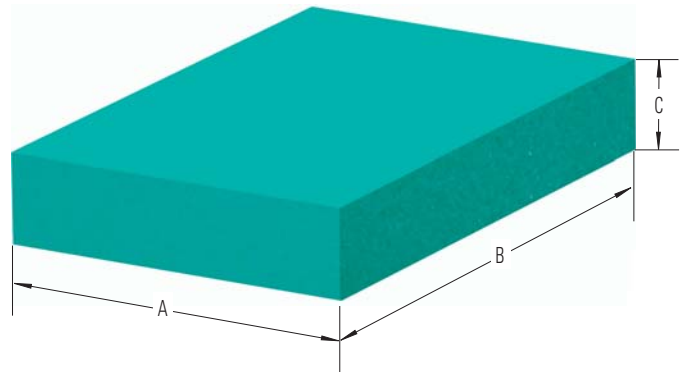
— Area 10 000 mm<sup>2</sup>  
 — Area 5 000 mm<sup>2</sup>  
 — Area 2 500 mm<sup>2</sup>

Load data: dynamic, free-falling mass,  
 Impact velocity about 1 m/s.

#### Ordering Example

ACE-SLAB \_\_\_\_\_  
 Material Type \_\_\_\_\_  
 Material Thickness \_\_\_\_\_  
 Dimension/Shape \_\_\_\_\_  
 (is assigned by ACE)

SL-300-12-Dxxxx



#### Technical Data

**Material:** mixed cellular polyether urethane  
**Characteristics:** viscoelastic PUR material with high damping capability  
**Standard Colour:** green  
**Delivery Form:** thickness 12 mm, rolls: 1.5 m wide, 5.0 m long, strips: up to the maximum width and length

Other dimensions (also thickness), colours, shapes and cut-out parts on request.

The chosen damping plate should be tested by the customer on the specific application.

#### Dimensions and Capacity Chart

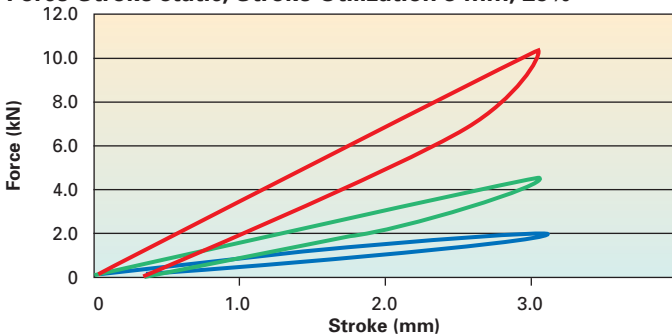
Material Type	W <sub>3</sub> max.* Nm/stroke	Stroke Utilization* mm	A mm	B mm	C mm	Area mm <sup>2</sup>	Density kg/m <sup>3</sup>	Return Time sec.	Weight g
SL-300-12-Dxxxx	17.0 (85.0)	3 (6)	50	50	12	2500	800	approx. 2 (3)	approx. 25
SL-300-12-Dxxxx	50.0 (250.0)	3 (6)	70.7	70.7	12	5000	800	approx. 2 (3)	approx. 50
SL-300-12-Dxxxx	100.0	3 (6)	100	100	12	10000	800	approx. 2 (3)	approx. 100

\* Energy absorption and stroke utilization as well as the below illustrated dynamic curve progression refer to a calculated free falling mass with an impact velocity of 1 m/s. For differing application data, these values can only be used as a reference. The energy absorption depends on the individual impact surface and stroke utilization. The longer the load duration the more the reduction in energy absorption (material fatigue).

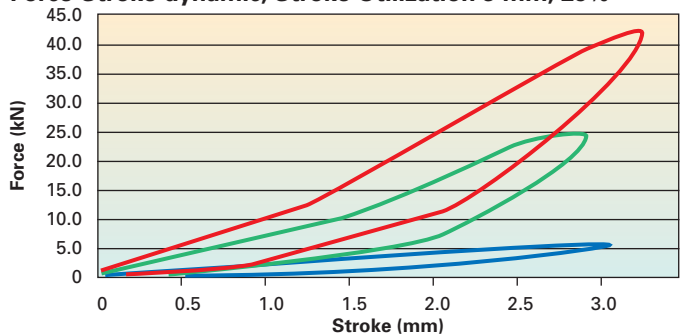
SL sample set 1.5 includes the 3 above mentioned sample plates. For other dimensions see page 20.

#### Damping Characteristics SL-300-12

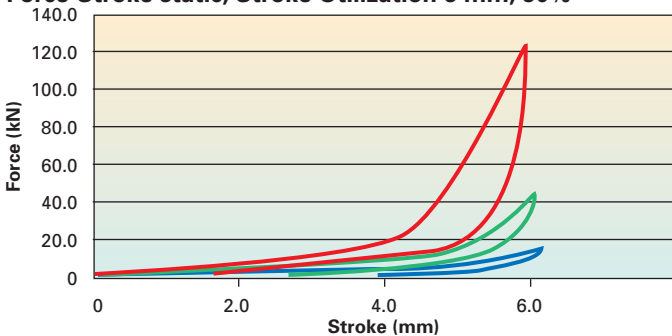
Force-Stroke static, Stroke Utilization 3 mm, 25%



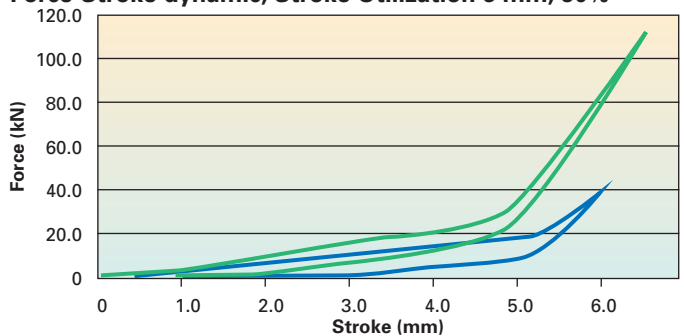
Force-Stroke dynamic, Stroke Utilization 3 mm, 25%



Force-Stroke static, Stroke Utilization 6 mm, 50%



Force-Stroke dynamic, Stroke Utilization 6 mm, 50%



Load data: static, between two level plates,  
 Deformation velocity 1% of the plate thickness / sec.

— Area 10 000 mm<sup>2</sup>  
 — Area 5 000 mm<sup>2</sup>  
 — Area 2 500 mm<sup>2</sup>

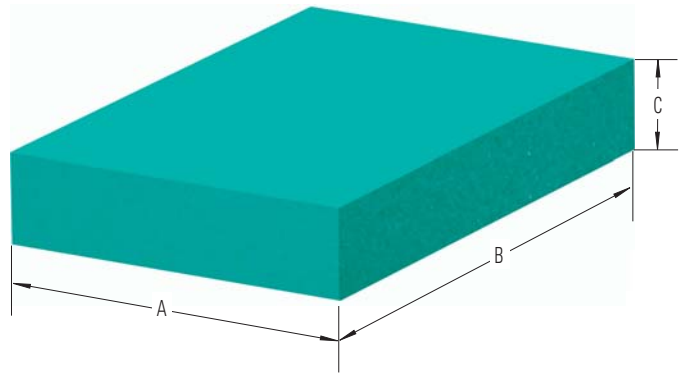
Load data: dynamic, free-falling mass,  
 Impact velocity about 1 m/s.

Issue 8.2006 Specifications subject to change

#### Ordering Example

ACE-SLAB \_\_\_\_\_  
 Material Type \_\_\_\_\_  
 Material Thickness \_\_\_\_\_  
 Dimension/Shape \_\_\_\_\_  
 (is assigned by ACE)

SL-300-25-Dxxxx



#### Technical Data

**Material:** mixed cellular polyether urethane  
**Characteristics:** viscoelastic PUR material with high damping capability  
**Standard Colour:** green  
**Delivery Form:** thickness 25 mm, rolls: 1.5 m wide, 5.0 m long, strips: up to the maximum width and length

Other dimensions (also thickness), colours, shapes and cut-out parts on request.

The chosen damping plate should be tested by the customer on the specific application.

#### Dimensions and Capacity Chart

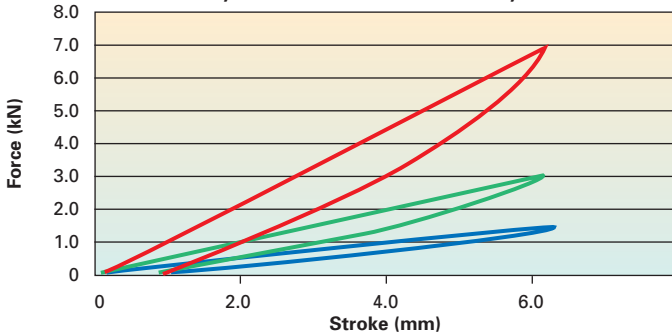
Material Type	W <sub>3</sub> max.* Nm/stroke	Stroke Utilization* mm	A mm	B mm	C mm	Area mm <sup>2</sup>	Density kg/m <sup>3</sup>	Return Time sec.	Weight g
SL-300-25-Dxxxx	19.5 (90.0)	6 (12)	50	50	25	2 500	800	approx. 3 (4)	approx. 50
SL-300-25-Dxxxx	50.0 (225.0)	6 (12)	70.7	70.7	25	5 000	800	approx. 3 (4)	approx. 100
SL-300-25-Dxxxx	150.0	6 (12)	100	100	25	10 000	800	approx. 3 (4)	approx. 200

\* Energy absorption and stroke utilization as well as the below illustrated dynamic curve progression refer to a calculated free falling mass with an impact velocity of 1 m/s. For differing application data, these values can only be used as a reference. The energy absorption depends on the individual impact surface and stroke utilization. The longer the load duration the more the reduction in energy absorption (material fatigue).

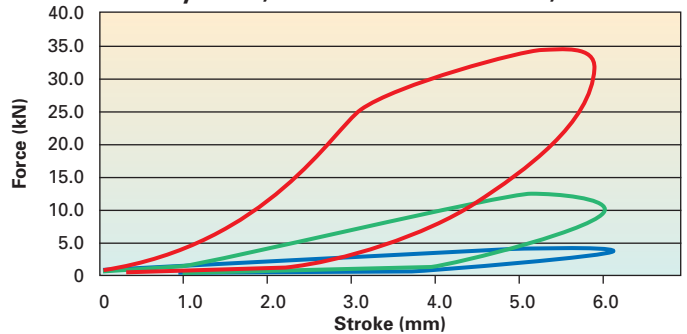
SL sample set 1.6 includes the 3 above mentioned sample plates. For other dimensions see page 20.

#### Damping Characteristics SL-300-25

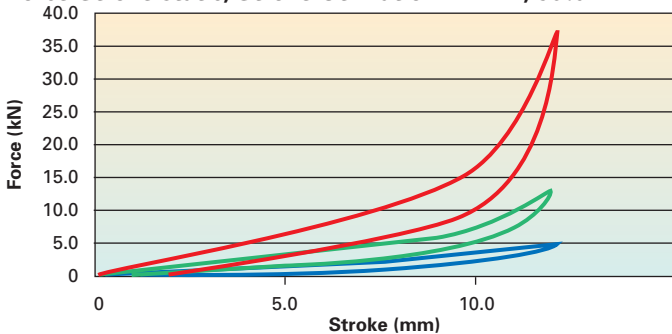
Force-Stroke static, Stroke Utilization 6 mm, 25%



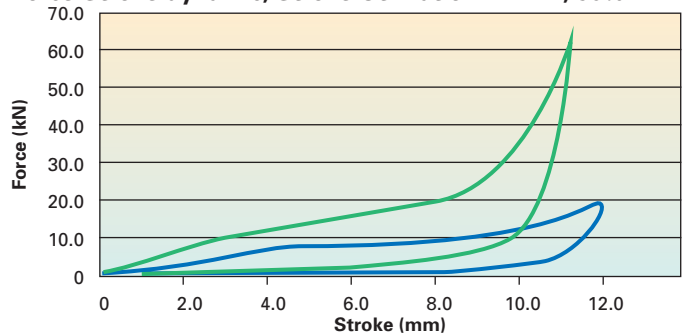
Force-Stroke dynamic, Stroke Utilization 6 mm, 25%



Force-Stroke static, Stroke Utilization 12 mm, 50%



Force-Stroke dynamic, Stroke Utilization 12 mm, 50%



Load data: static, between two level plates,  
 Deformation velocity 1% of the plate thickness / sec.

— Area 10 000 mm<sup>2</sup>  
 — Area 5 000 mm<sup>2</sup>  
 — Area 2 500 mm<sup>2</sup>

Load data: dynamic, free-falling mass,  
 Impact velocity about 1 m/s.