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LKL

Low-profile rectangular attenuator

- Easy installation
- Low-profile design
- Included in the “Attenuator Selection” computer program

TROX® TECHNIK

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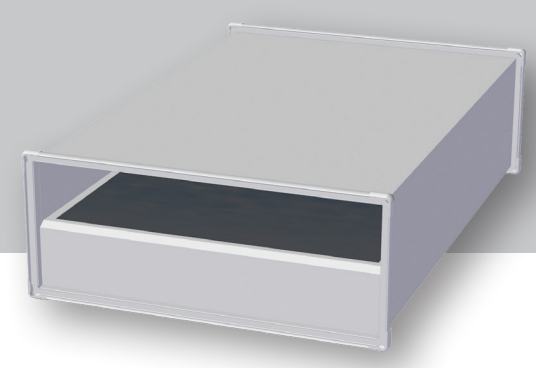
LKL



APPLICATION
LKL is a rectangular sound attenuator for installation in rectangular ducting.

DESIGN
LKL is a rectangular steel unit with internal splitter. The unit is equipped with a flanged connection at each end. LKL is available in heights from 150 mm to 400 mm (50 mm increments), and in lengths of 640, 1000, 1240 and 1500 mm. Widths in 50 mm increments. LKL complies air tightness class B.

MATERIALS AND SURFACE COATING
LKL comes in a galvanised steel design. The flanged joint is equipped with a polyethylene gasket.
A splitter with mineral wool with a glass fibre layer has been fitted inside.

QUICK SELECTION
In order to ensure correct/optimum splitter combination, an “Attenuator Selection” computer program has been developed and is available for download from our website: www.trox.no.

ORDER CODE, LKL

LKL - 500 - 350 - 1240 / 0 - 0

Product
B = Width
H = Height
L = Length; 640, 1000, 1240 or 1500

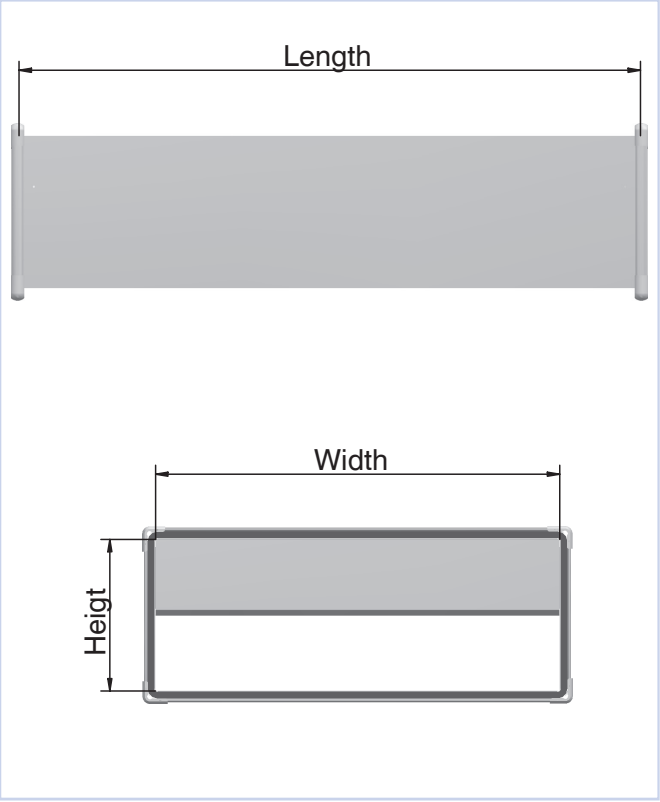
L = Painted finish
SM = Special material

Example:
LKL-500-350-1240 / 0-0
Explanation:
LKL, width 500, height 350 and length 1240

DIMENSIONS AND WEIGHT, LKL
*Weight is calculated by using the formula: factor x B X L, with B and L specified in metres.

Height	Width	Length [mm]	Weight* [kg]
150	150–1000	640, 1000	18,5 x B x L
		1240, 1500	
200	200–1000	640, 1000	19,0 x B x L
		1240, 1500	
250	250–1000	640, 1000	21,8 x B x L
		1240, 1500	
300	300–1000	640, 1000	23,2 x B x L
		1240, 1500	
350	350–1000	640, 1000	25,0 x B x L
		1240, 1500	
400	400–1000	640, 1000	27,0 x B x L
		1240, 1500	

Table 1



Figur 1

LKL

DIMENSIONING

Static sound attenuation, LKL

Hight	Length	Octave band [Hz]							
[mm]	[mm]	63	125	250	500	1k	2k	4k	8k
150	640	1	1	3	12	19	12	9	6
150	1000	2	2	6	17	27	17	11	8
150	1240	2	3	9	21	35	22	14	10
150	1500	3	5	13	25	42	27	16	12
200	640	2	2	7	13	15	8	7	7
200	1000	5	4	9	17	21	12	9	8
200	1240	8	7	12	21	27	15	10	8
200	1500	12	9	15	25	33	18	12	9
250	640	1	3	7	13	12	7	6	7
250	1000	1	5	10	18	17	10	7	8
250	1240	1	6	12	23	21	12	9	9
250	1500	1	8	15	28	26	15	10	10
300	640	1	2	7	12	10	6	6	6
300	1000	1	4	9	16	14	8	6	7
300	1240	1	6	12	21	17	10	7	7
300	1500	1	8	15	26	21	11	8	8
350	640	2	2	6	12	18	13	8	5
350	1000	3	3	8	16	25	18	10	7
350	1240	4	4	11	20	33	22	12	8
350	1500	5	6	14	24	40	27	15	9
400	640	1	2	6	11	17	12	7	5
400	1000	1	4	8	15	24	15	8	6
400	1240	2	5	11	19	30	18	10	8
400	1500	3	7	13	22	37	22	12	9

Table 2

CALCULATION DIAGRAMS

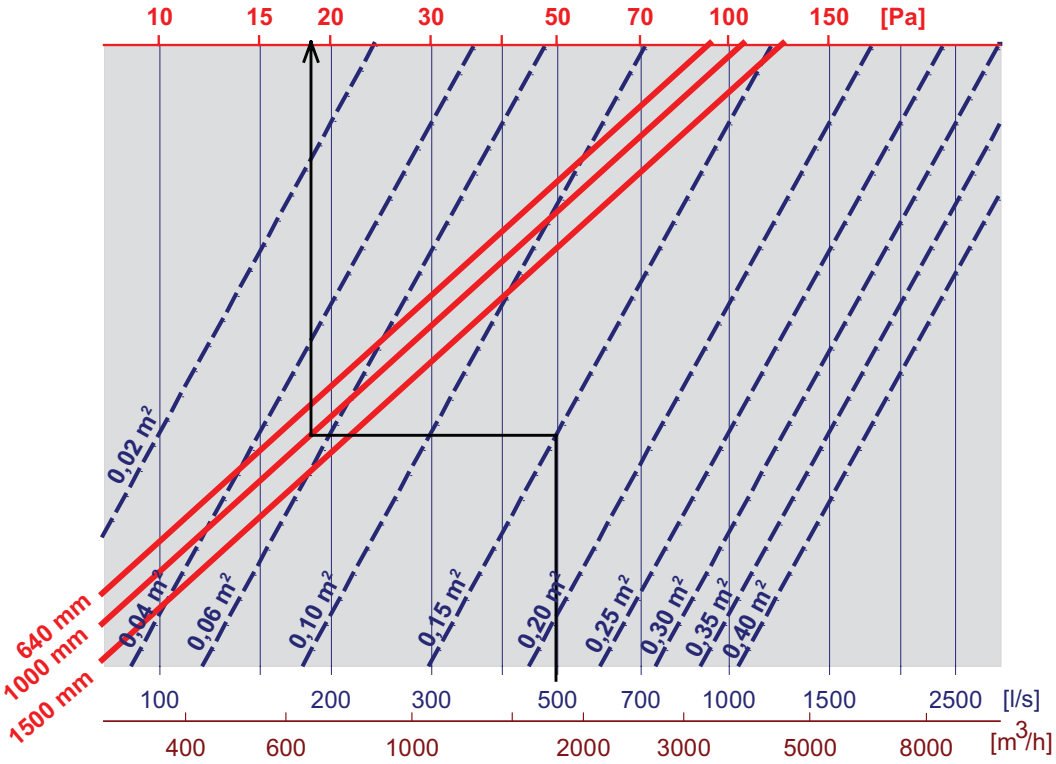


Diagram 1

Example

A flow rate of 500 l/s through a LKL unit which is 500 mm in width, 300 mm in height and 1000 mm in length:

The gross area is: 0.5 x 0.3 m = 0.15 m²

From 500 l/s on the lower axis, a line is extended to the blue diagonal line for 0.15 m².
A horizontal line is then drawn to the red diagonal line for 1000 mm length.
Finally, the line is extended vertically to the upper axis and shows a pressure drop of 18 Pa.

LKL

INSTALLATION

Installation principle shown in fig. 2.

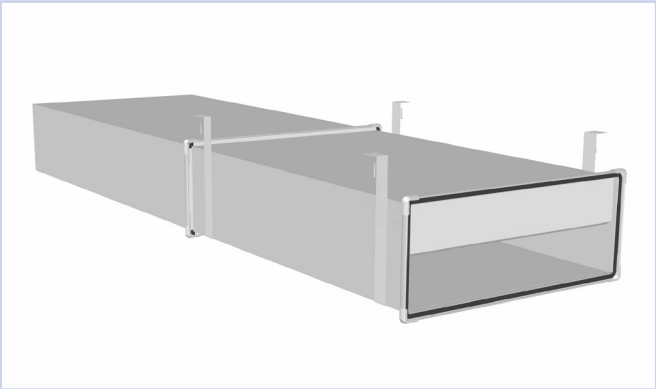


Fig. 2: Installation

MAINTENANCE

The attenuation material used in LKL has a layer approved for mechanical cleaning with rotating nylon brushes.

ENVIRONMENT

Enquiries regarding product declaration can be directed to our sales team, or information can be found at www.trox.no

LKL is developed and manufactured by:

The company reserves the right to make amendments without priornotice.

www.tinfkom.no

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