



ELASTOMER SERVICE ZENTRALE
WILFRIED BECKER GMBH



ESZ-Type Z stair bearing | For structure-borne noise insulation
Product information

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Product information

- Purpose

The ESZ-Type Z stair bearing is intended for the insulation of structure-borne noise between the flight of stairs and the landing as well as for load centring and for the compensation of unevenness of the contact surfaces. It consists of profiled elastomeric material bonded with the PE material ESZell to form an assembly unit.
- Delivery type

The bearing is supplied in rolls of 10 m. Individual cutting to size is possible on enquiry. 5 metres of ESZell are also provided with each roll as lateral flaps (for cutting to size on site).
- Temperature range in use

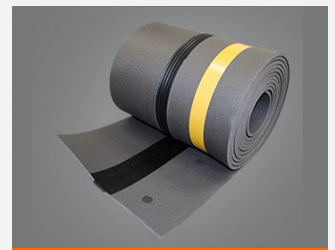
range of -30 °C to +50 °C
- Fire resistance

fire protection report from the MPA Braunschweig
- Tests/Quality Assurance

The statically relevant elastomer core (ESZ profile bearing) has a General Building Authority Test Certificate for use in accordance with DIN 4141-3, bearing class 2.
- RFP text

Supply ESZ-Type Z stair bearings and fit to flights of stairs, steel reinforced concrete stairs and landings. The requirements for increased noise insulation must be fulfilled and verified by a test certificate in the executed building. A valid Building Authority Test Certificate (ABP) as well as a fire protection report are required and must be submitted to the construction site management.

Quantity: _____ metres



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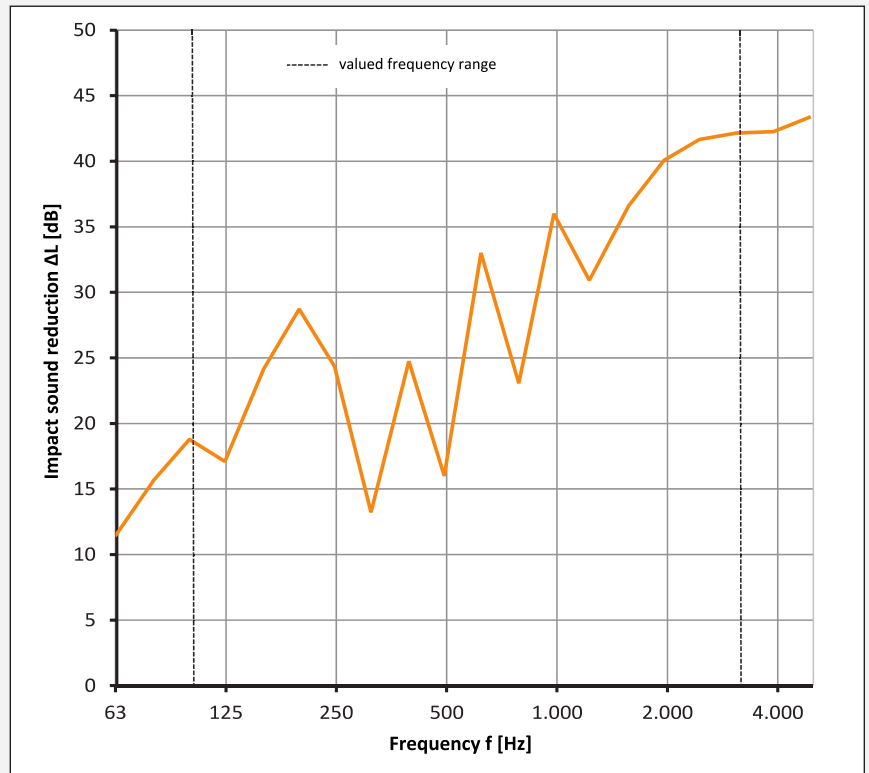
The ESZ-Type Z stair bearing is available in two versions: With a standard core of 50 mm or alternative 100 mm. The table on the right side indicates which version is best suited, depending on the existing stair weight. The average compression for this field of application should be $< 1 \text{ N/mm}^2$. On request, different core widths can be produced.

staircase weight per 1,0 Meter [kg]								
	1000	2000	3000	4000	5000	6000	8000	10000
core width [mm]	Actual pressure actual σ in $[\text{N/mm}^2]$							
50	0,100	0,200	0,300	0,400	0,500	0,600	0,800	1,000
100	0,050	0,100	0,150	0,200	0,250	0,300	0,400	0,500

Impact sound improvement index ΔL_w in [dB]	
50/100	≤ 32

The chart on the right shows the determined measurement results from a laboratory test according to EN ISO 717-2 and EN ISO 10140. In order to avoid structure-borne noise bridges, the bearing joint should be free from mortar residues or similar contaminants.

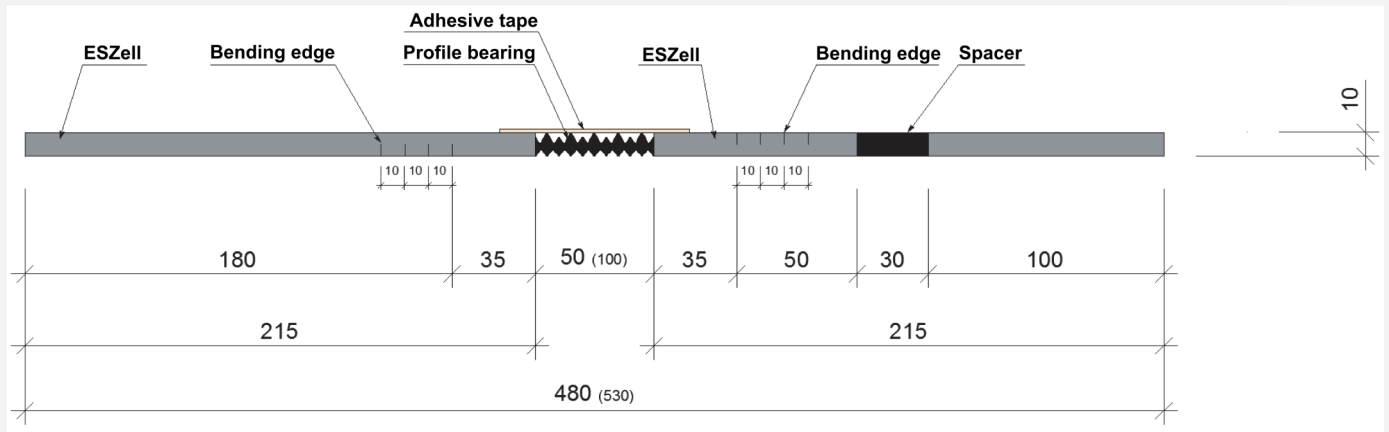
$\Delta L_w = 32 \text{ dB}$
 $C_{l,\Delta} = -11 \text{ dB}$



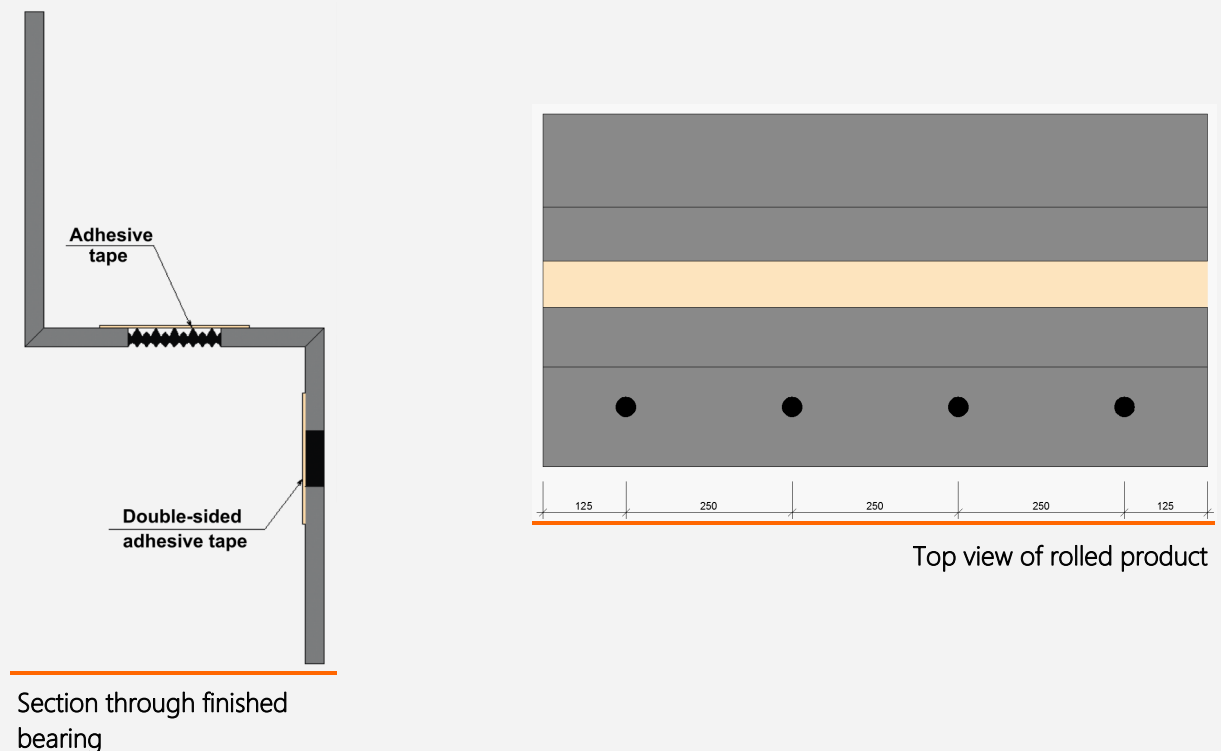
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Section through rolled product | 50mm (100mm) core width



Section through finished bearing

Top view of rolled product

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