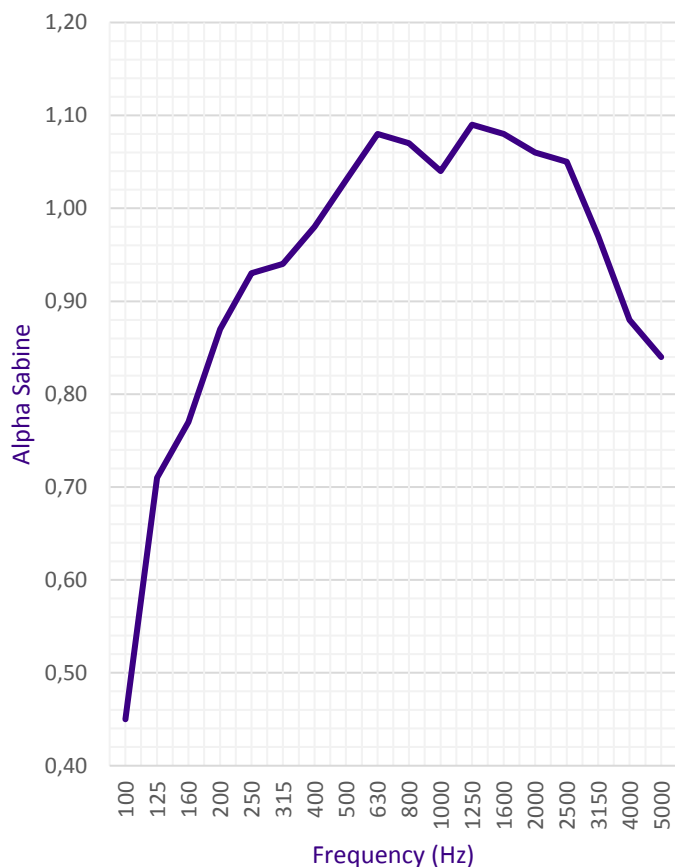


SYSTEM COMPOSITION

- | | |
|---------------------------------------|--|
| 1. Perforated tray 90/500 th. 0,75 mm | 7. Stonewool 200mm 40kg/m ³ |
| 2. Absorbing glasswool th. 30 mm | 8. Steel pole |
| 3. Stonewool th. 100mm | 9. Second steel structure |
| 4. Particle board CTBH P5 22 mm | 10. Corrugated steel sheet th. 1 mm |
| 5. Bitumen vapor barrier | 11. Particle board CTBH P5 th. 22 mm |
| 6. Acoustic Phono-Pad & Phono-Washer | 12. Acoustic panel Phonotech DK140 |

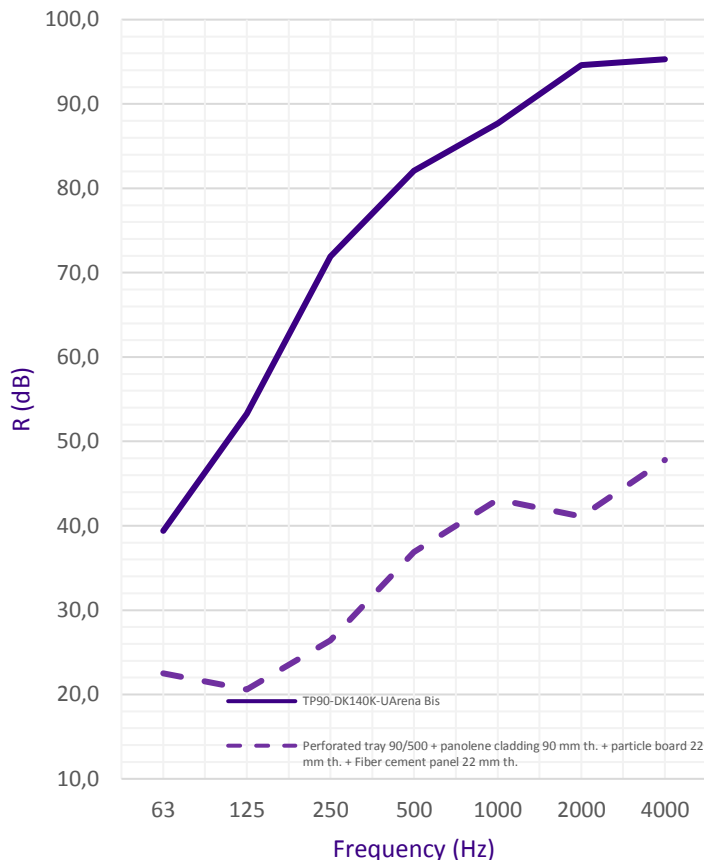
Absorption

$\alpha_w = 1,00$



Insulation

$R_w(C; C_{tr}) = 82 (-6 ; -14) \text{ dB}$



α_p per octave band (Hz)

Frequency (Hz)	125	250	500	1000	2000	4000
α_p	0,64	0,91	1,03	1,07	1,06	0,90

R (dB) per octave band (Hz)

Frequency (Hz)	63	125	250	500	1000	2000	4000
R (dB)	39,4	53,3	71,9	82,1	87,7	94,6	95,3

System	Sound reduction			α_w	Thermal R (m ² /W)	U (W/m ² K)	Weight (kg/m ²)	Thickness (Mm)	PV
	R _w (dB)	RA (dB)	RA _{tr} (dB)						
TP90-DK140-UArena Bis	82	76	68	1,00	13,73	0,07	101,60	1148	CSTB (11/15)

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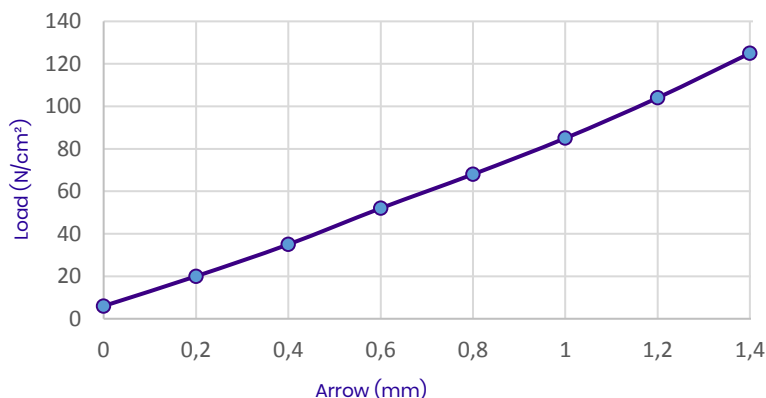
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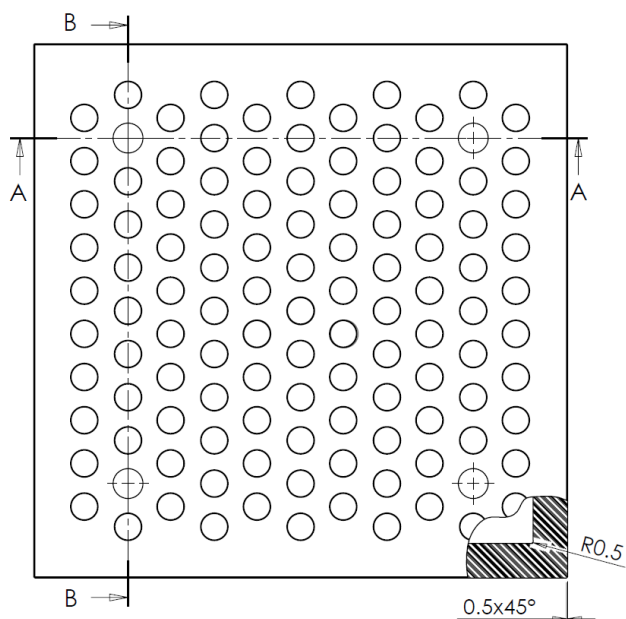
DESCRIPTION

The acoustic pads **Phono-Pads** are used as part of TP90-DK140-UArena and TP90-DK140-UArenaBis acoustic systems, to ensure an optimal sound insulation between the primary frame and secondary frame.

They are combined with **Phono-Washers** acoustic washers to avoid rigid contact at the fasteners.



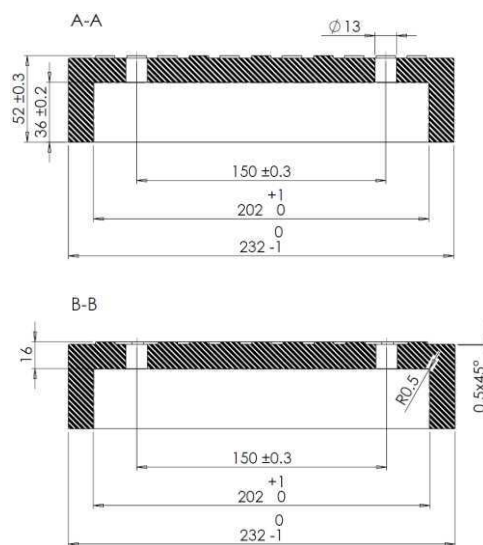
The pads offer a durable protection against vibration, They are slip resistant and abrasion resistant.



CHARACTERISTICS

- Durable insulation and elasticity
- Good performance at low frequencies thanks to the reliefs good oil- and other aggressive fluid-resistance
- Hardness: 80° shore
- Relief yield up to the maximum 5.000 daN
- Maximal charge : 20.000 daN

The plate's reliefs permits to reduce the contact's surface. This makes it possible to locally increase the pressure on the pad and therefore to increase the acoustic insulation of the product. In case of overload, the reliefs break totally and the damper works like a plate without relief. The yield of the relief's consideration gives a safety because it limits the overload.





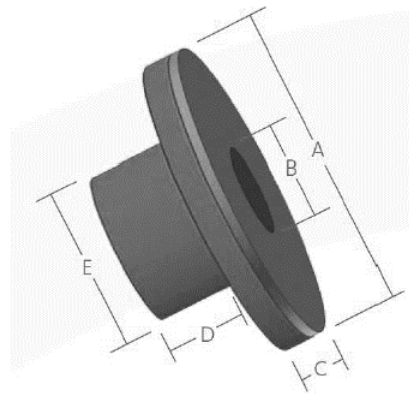
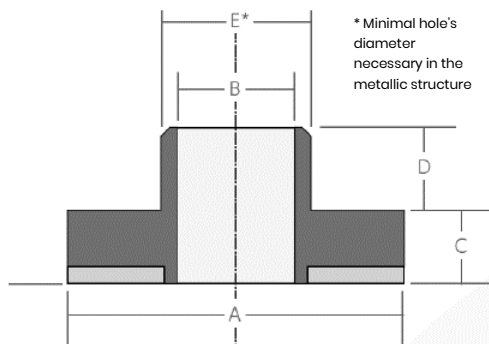
DESCRIPTION

The acoustic washers **Phono-Washer** are used as part of TP90-DK140-UArena and TP90-DK140-UArenaBis acoustic systems, to ensure an optimal sound insulation between the primary frame and secondary frame.

They are combined with **Phono-Pad** acoustic pads and avoid rigid contact at the fasteners.

CARACTERISTICS

- Material : CR rubber and zinc-pated steel
- Material's bonding : By Vulcanisation
- Hardness CR : 85 +/- 5° Shore



				Normal application				Maximal charges		
A	B	C	D	E (∅ of the mini hole in the metal structure)	Normal tightening couple	Laps' number (standard metric thread)	Static deflection	Maximal tightening couple	Laps' number (standard metric thread)	Static deflection
mm	mm	mm	mm	mm	Nm	-	mm	Nm	-	mm
40	13	6,5	10	16,5	18	1/4	0,4	27	1/3	0,6