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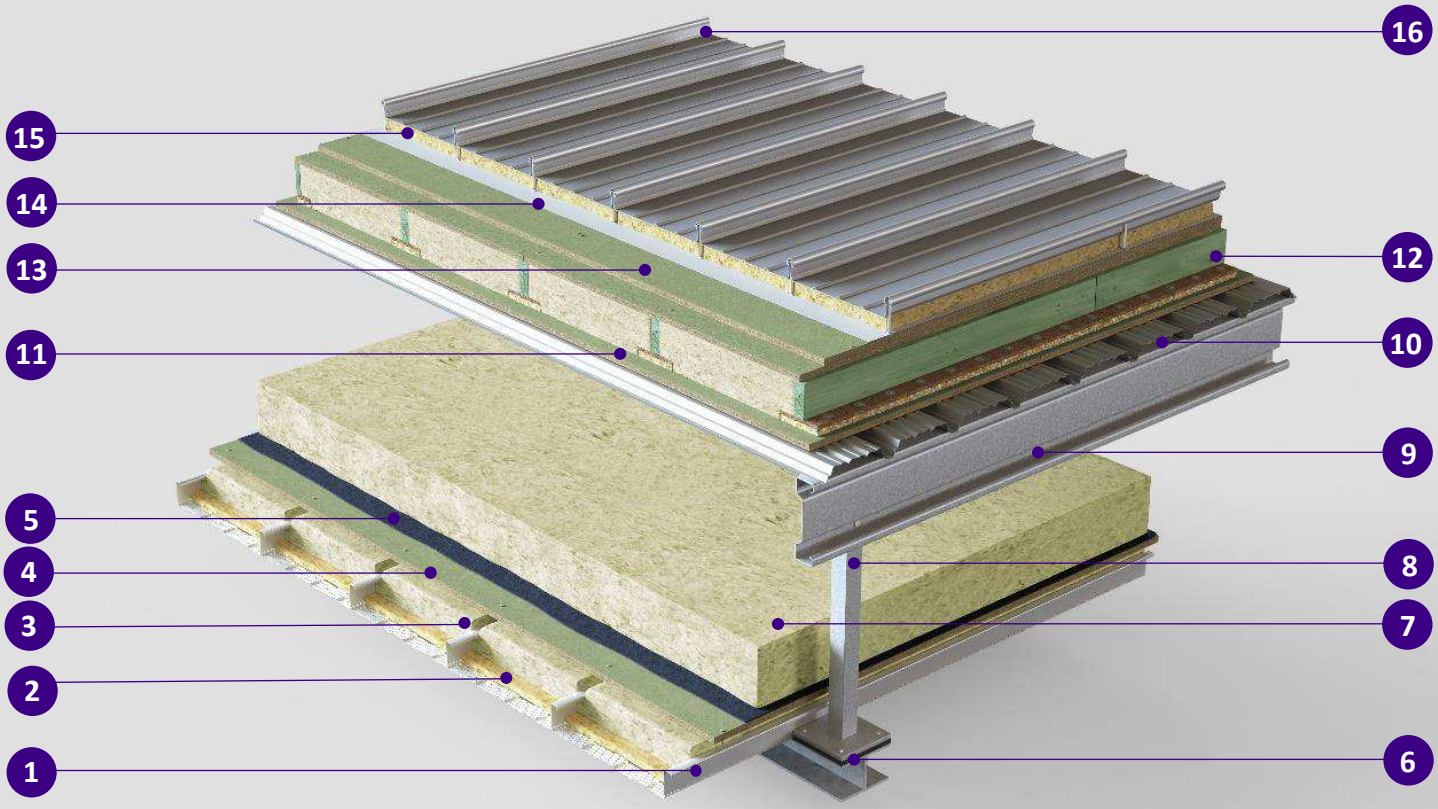
Sound insulation

TP90-DK140-UArena System



SYSTEM COMPOSITION

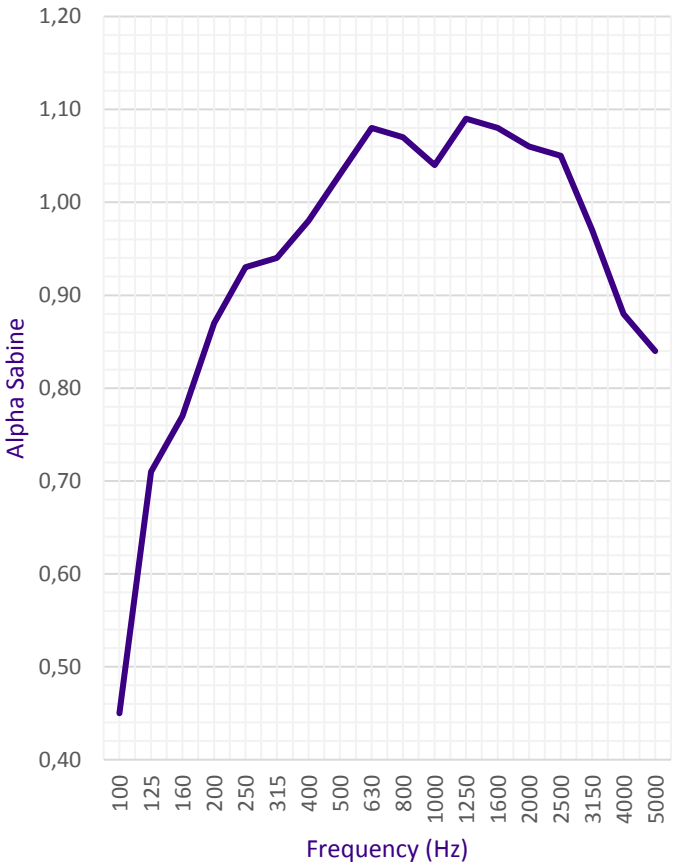
1. Perforated tray 90/500 th. 0,75 mm
2. Glasswool th. 30 mm
3. Stonewool th. 100mm
4. Particle board CTBH P5 22 mm
5. Bitumen vapor barrier
6. Acoustic Phono-Pad & Phono-Washer
7. Stonewool 200mm 40kg/m³
8. Steel pole
9. Second steel structure
10. Corrugated steel sheet th. 1 mm
11. Particle board CTBH P5 th. 22 mm
12. Acoustic panel Phonotech DK140
13. Particle board CTBH P5 th. 22 mm
14. PVC membrane 12G *
15. Stonewool 50 mm *
16. Kalzip system *

* The layers from 14 to 16 were not present for the acoustic tests and therefore are not included in the acoustic, thermal and physical data presented on page 2

TP90-DK140-UArena System

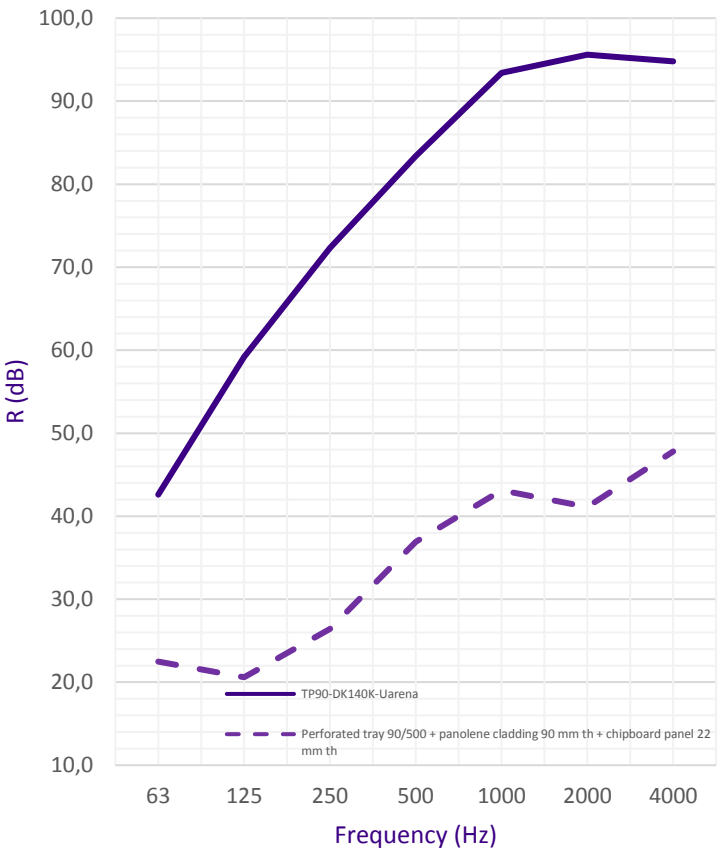
Absorption

$\alpha_w = 1{,}00$



Insulation

$R_w (C; C_{tr}) = 83 (-2 ; -9)$ 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)	42,6	59,2	72,3	83,4	93,4	95,6	94,8

System	Sound reduction			Thermal R (m².K/W)	U (W/m².K)	Weight (kg/m²)	Thickness (mm)	PV
	Rw (dB)	RA (dB)	RA,tr (dB)					
TP90-DK140-UArena	83	81	74	13,86	0,07	116,00	1170	CSTB (11/15)

ADRESS
Zoning Industriel les Plénesses
Rue des Waides 8, 4890 Thimister
Belgium

WEBSITE
www.phonotech.com

E-MAIL
info@phonotech.com

PHONE
+32 (0) 87 33 33 30

FAX
+32 (0) 87 78 52 30

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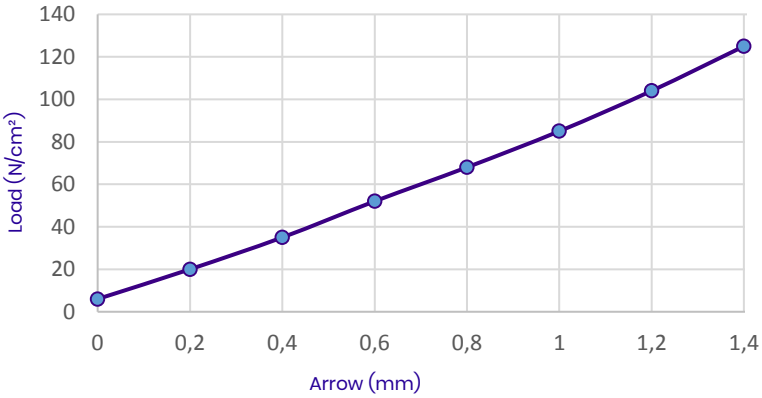
Product sheet
PHONOTECH Phono-Pad

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.

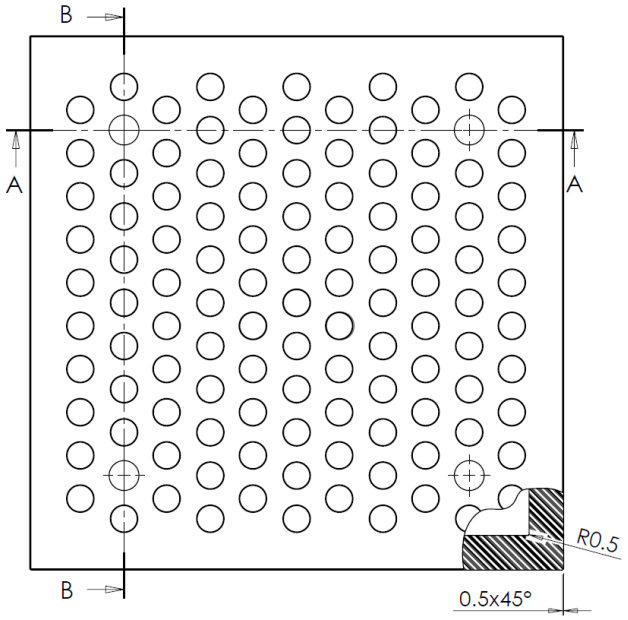


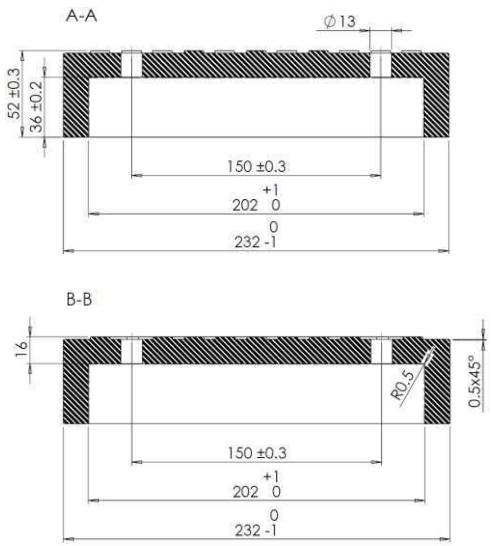
The pads offer a durable protection against vibration, They are slip resistant and abrasion resistant.

CARACTERISTICS

- Durable insulation and elasticity
- Good performance at low frequencies thanks to the reliefs good oil- and other aggresive 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 totallly and the damper works like a plate without relief. The yield of the relief's consideration gives a safety because it limits the overload.





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Product Sheet
PHONOTECH Phono-Washer

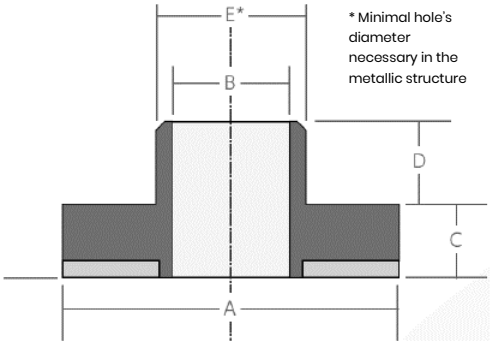
DESCRIPTION

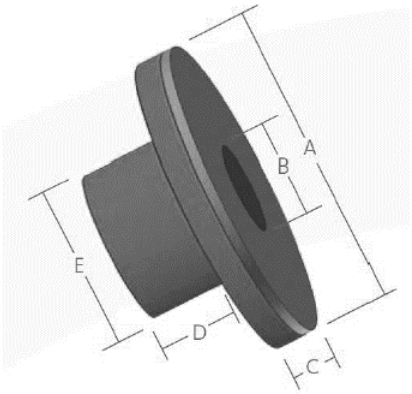
The acoustic washers **Phono-Washer** are used as part of TP90-DK140-UArena and TP90-DK140-UArenaBis acoustic systems, to ensure an optimal sound insulation between the primary frame and secondary frame.

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 (Ø 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

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