SENOR Productos **Paredes**

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DATA SHEET
Ref.SE-3803/TD1

ACOUSTIC MOUNT FOR
DAY AND NIGHT LOCAL WITH EMISSION >80 dBA

*System registered with the Spanish Patent and Trademark Office.

We are pleased to introduce an innovated side damper that integrates advanced technology, using a new polymeric component from renowned manufacturer KRAIBURG. This material has been precisely developed to provide tranquillity and comfort in those environments where impact noise and vibrations can be irritating and disruptive to the concentration and well-being of occupants. We have completely renewed this product to comply contemporary requirements demanding. Its innovative design uses the technology that mitigates disturbance caused by vibromechanical energy which might otherwise be transmitted to adjacent walls. This ensures a cleaner, quieter environment, improving quality of life and enabling people to enjoy more welcoming places.

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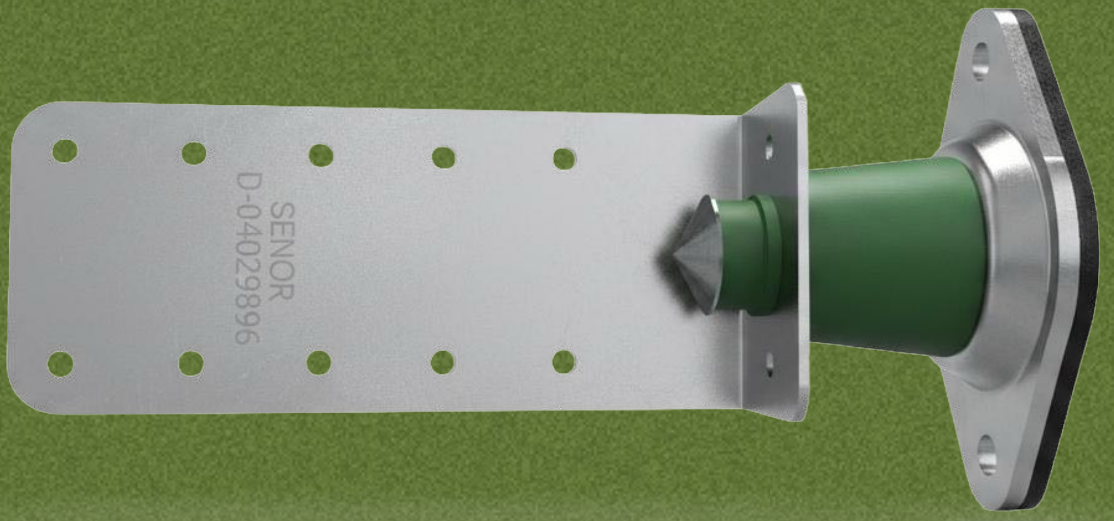

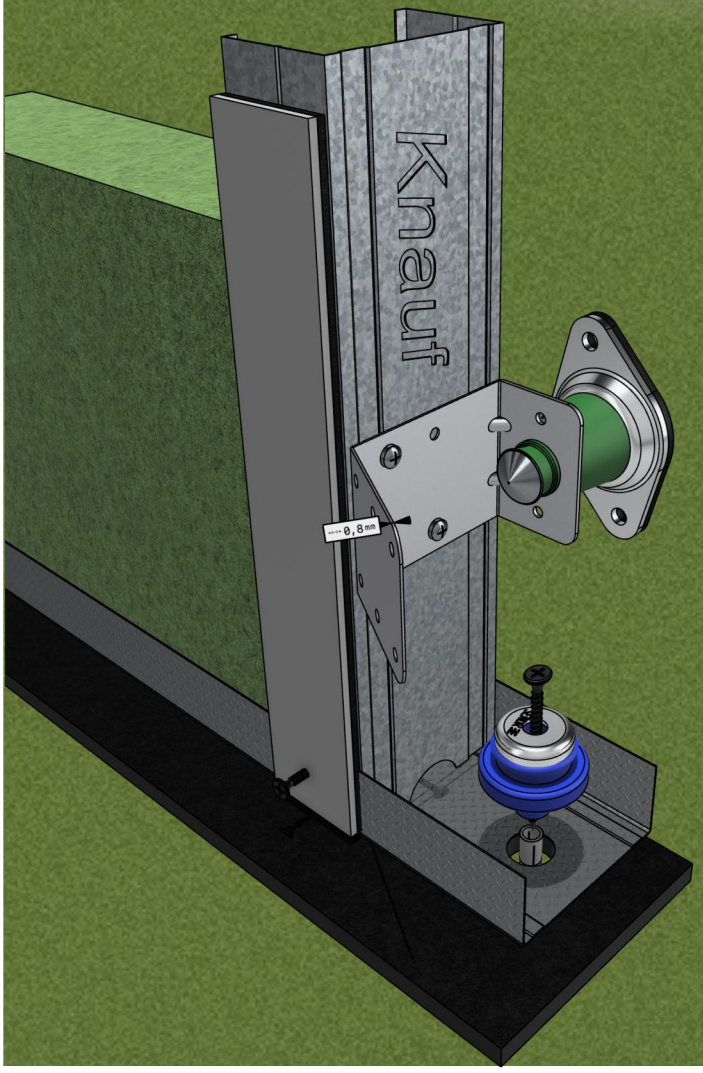

The **3803/TD1** side damper is equipped with a **PATENTED** movement control system, which allows the metal extension bracket to operate in both directions, improving the axial compression of the polymer. This has reduced airborne noise by more than **16 dBA** in a construction system that has already been tried and tested.

✓ **3803/TD1**: The **L-square** features an innovative design with a thickness of **0.8 mm**, providing the perfect balance between durability and flexibility. Now, bending the L-square by hand is easier than ever! This specific version of the square is not only characterised by its ability to bend, but also fits easily to take up less space, making it the ideal tool for working in tighter spaces. Its optimised design is particularly suitable for air chambers measuring less than 10 cm, allowing for precise work even in the most confined environments. An excellent option for professionals who need a versatile and functional tool in their daily work.

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STEEL angle section: Manufactured in accordance with **EN 10204/ IN50049** / **ISO404**. Processed in accordance with steel standard **EN 10346:2015**.

QUALITY DX51D+Z275 NA C. 275 gr/m2.

- **Thickness:** 1,5 mm (more **Robust**).

Polymer: KRAIBURG-TPE (Test method in accordance with standard **UNE-EN ISO 10846-1:2009). Density:** 39º +-5º ShoreA - DIN ISO 7619-1

- **Resonance frequency:** 7-15 Hz.

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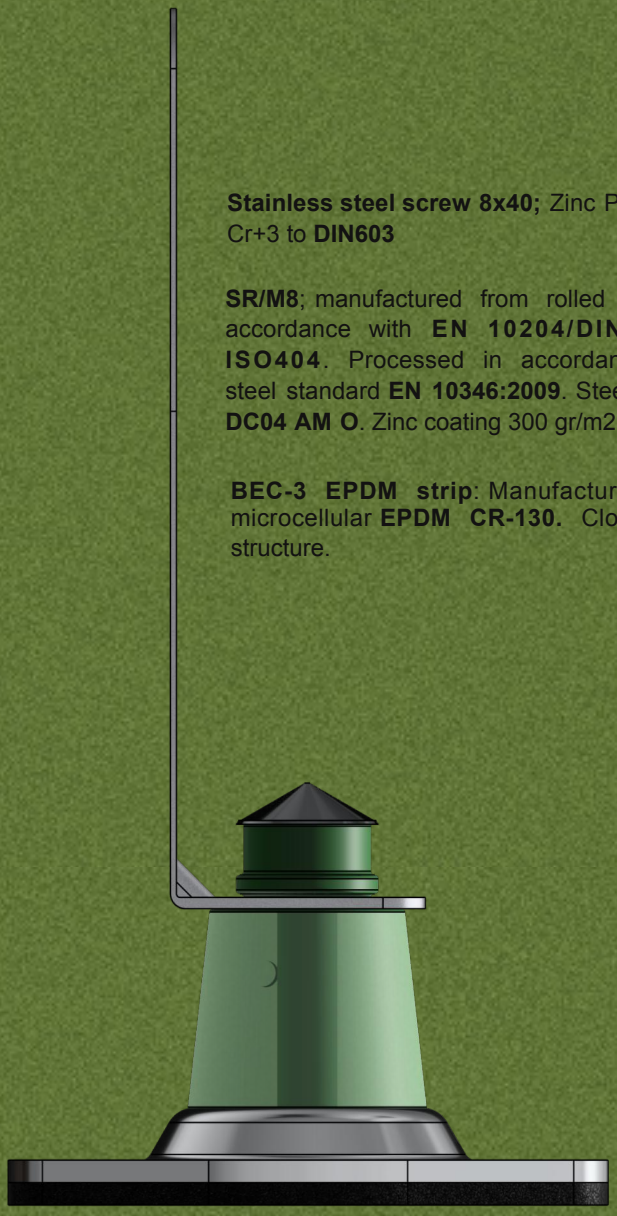
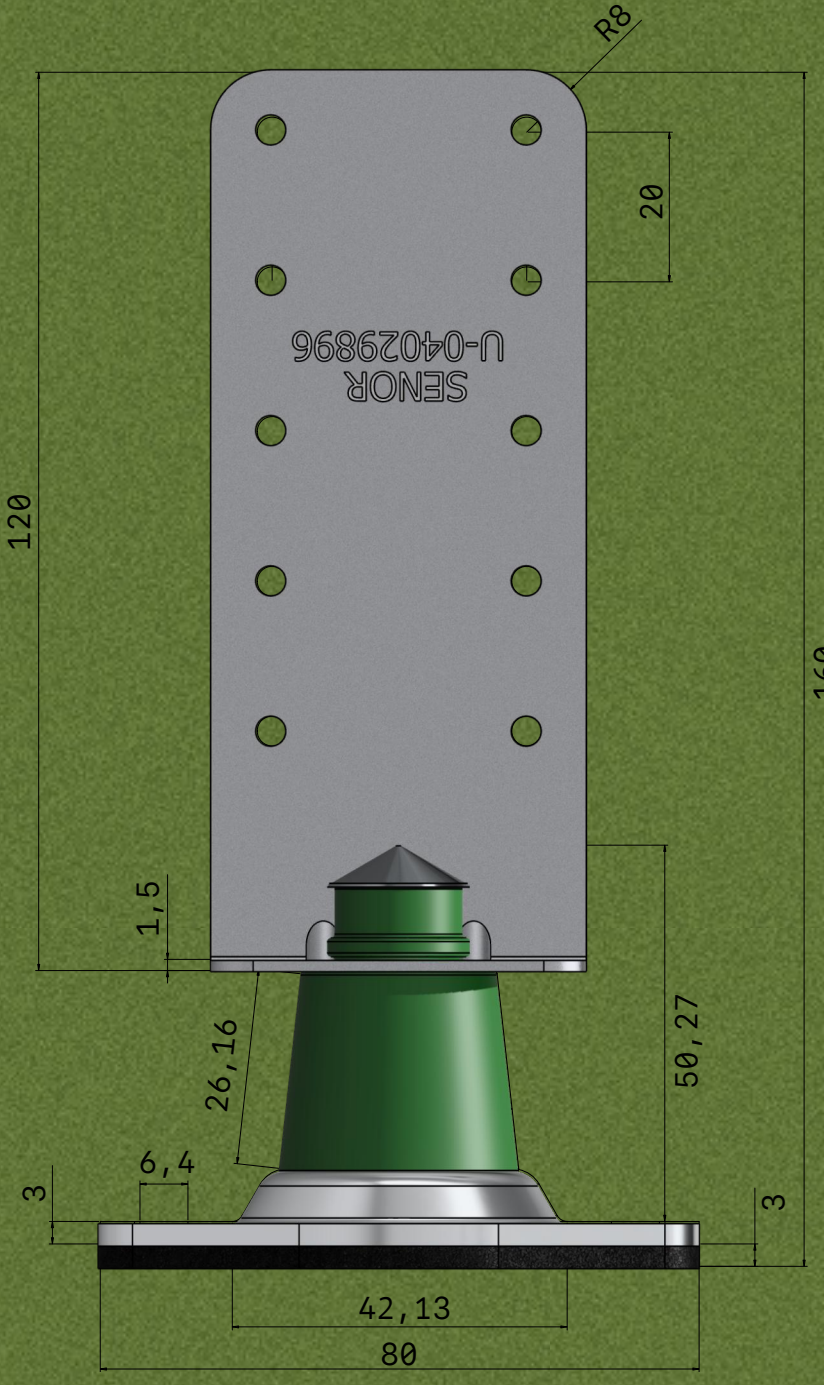
Stainless steel screw 8x40; Zinc Plated Cr+3 to **DIN603**

SR/M8; manufactured from rolled steel in accordance with **EN 10204/DIN50049/ ISO404**. Processed in accordance with steel standard **EN 10346:2009**. Steel quality **DC04 AM O**. Zinc coating 300 gr/m2.

BEC-3 EPDM strip: Manufactured from microcellular **EPDM CR-130.** Closed cell structure.





DIMENSIONS

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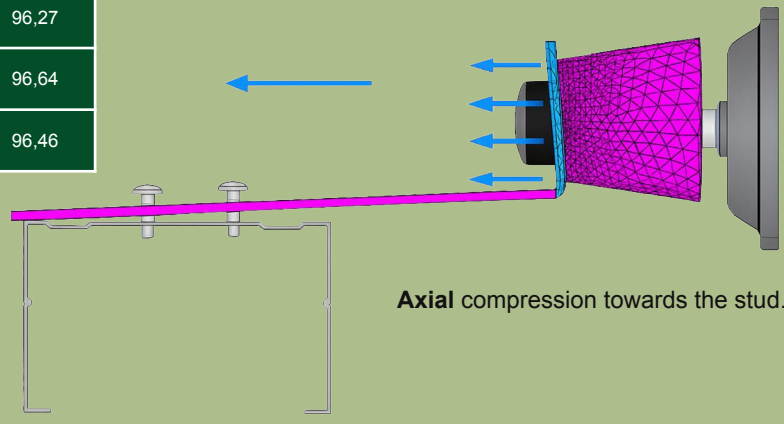
RESULTS TABLE A

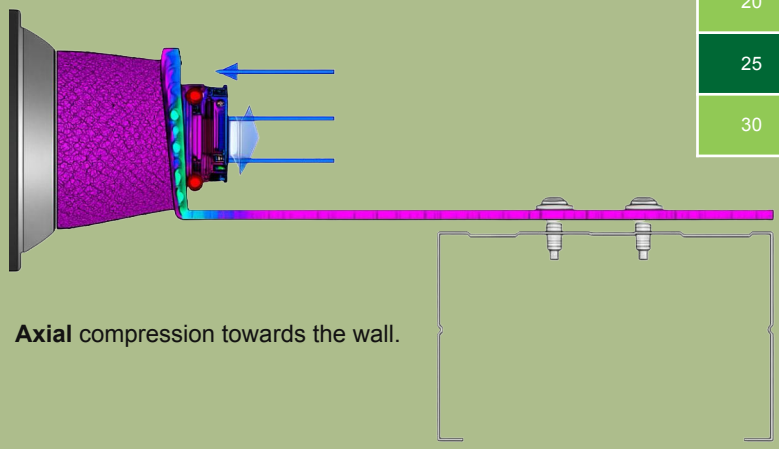
LOAD (Kg)	DEFORMATION (mm)	R.FREQUENCY (Hz)	SWEEP (Hz)		SOUNDPROFING (%)	
5	2,27	9,48	25	50	83,21	96,27
10	4,22	9,02	25	50	85,03	96,64
15	6,2	9,25	25	50	84,14	96,46



Axial compression towards the stud.

RESULTS TABLE B

LOAD (Kg)	DEFORMATION (mm)	R.FREQUENCY (Hz)	SWEEP (Hz)		SOUNDPROFING (%)	
10	1,9	9,38	25	50	83,62	96,35
15	2,6	9,06	25	50	84,88	96,61
20	3,75	8,68	25	50	86,29	96,89
25	4,50	8,46	25	50	87,07	97,05
30	5,50	8,14	25	50	88,14	97,28



Axial compression towards the wall.

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TESTS

Standard: UNE-EN ISO 10140-1:2016 y 10140-2:2011
Laboratory: TECNALIA (Vitoria)
Date: October 23, 2020

◉ Test performed **without** dampers: Analysing the results in the table on the left, we see that the **RA** is 57.3 dBA.

◉ Test performed **with** dampers: Analysing the results in the table on the right, we see that the **RA** is 64.1 dBA.

Conclusion: We can see that the improvement achieved by using dampers compared to the solution without dampers is **7 dBA**.

AKUSTIKA ARLOA/AREA DE ACUSTICA
Eraikuntzaren Kalitate Kontrolerako Laborategia
Laboratorio de Control de Calidad de la Edificación

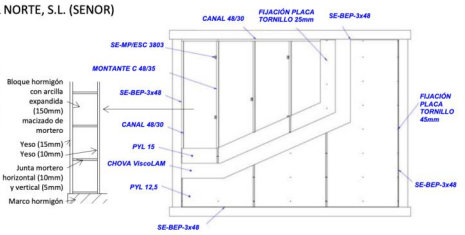
EUSKO JAURLARITZA GOBIERNO VASCO

tecnalia

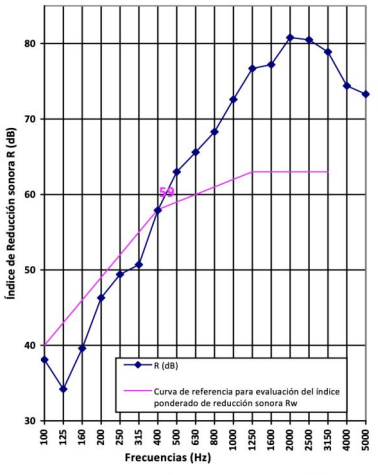
Aislamiento a Ruido Aéreo según UNE-EN ISO 10140-2:2011
Medidas en Laboratorio

Solicitante: SUSPENSIONES ELÁSTICAS DEL NORTE, S.L. (SENOR)
Nº Resultado: B2020-122-M757 RA
Fecha Ensayo: 21/10/2020
Muestra: TRASDOSADO AUTO-PORTANTE NO ACÚSTICO (SENOR + CHOVA): SE-MP/ESC 3803; SE-BEP-3X48; CHOVA VISCOLAM, SOBRE PARED DE BLOQUE REVESTIDA.

Masa superficial estimada: 325 kg/m²
Área muestra: 10,08 m²
Volumen sala emisora: 65,6 m³
Volumen sala receptora: 55,2 m³
T cámaras: 20,4 ºC
HR cámaras: 54 %
P cámaras: 949 mbar



f (Hz)	R (dB)
100	38,1
125	34,2
160	39,6
200	46,3
250	49,4
315	50,7
400	57,9
500	63,0
630	65,6
800	68,3
1000	72,6
1250	76,7
1600	77,2
2000	80,8
2500	80,5
3150	78,9
4000	74,4
5000	73,3



Índices según UNE-EN ISO 717-1:2013:	R_w ($C;C_{tr}$):	59 (-3; -8) dB
Índices según CTE DB-HR:	R_A:	57,3 dBA
	$R_{A,tr}$:	50,7 dBA

Evaluación basada en resultados medidos en laboratorio obtenidos mediante un método de ingeniería.

ilac-MRA ENAC ENSAYOS Nº 4/LE456

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Eraikuntzaren Kalitate Kontrolerako Laborategia
Laboratorio de Control de Calidad de la Edificación

EUSKO JAURLARITZA GOBIERNO VASCO

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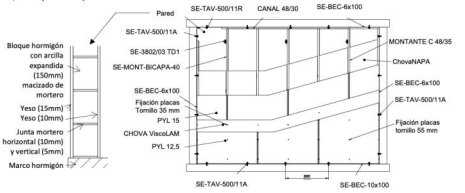
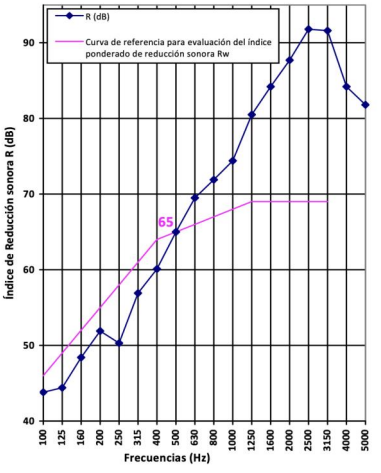
Aislamiento a Ruido Aéreo según UNE-EN ISO 10140-2:2011
Medidas en Laboratorio

Solicitante: SUSPENSIONES ELÁSTICAS DEL NORTE, S.L. (SENOR)
Nº Resultado: B2020-122-M758 RA
Fecha Ensayo: 23/10/2020
Muestra: TRASDOSADO AUTO-PORTANTE ACÚSTICO (SENOR + CHOVA): SE-BEC-6X100; SE-TAV-500/11A; SE-TAV-500/11R; SE-BEC-10X100; SE-MONT-BICAPA-40; SE-3802/03 TD1; CHOVANAPA; CHOVA VISCOLAM, SOBRE PARED DE BLOQUE REVESTIDA.

Masa superficial estimada: 325 kg/m²
Área muestra: 10,08 m²
Volumen sala emisora: 65,3 m³
Volumen sala receptora: 55,2 m³
T cámaras: 20,4 ºC
HR cámaras: 53 %
P cámaras: 961 mbar



f (Hz)	R (dB)
100	43,8
125	44,4
160	48,4
200	51,9
250	50,3
315	56,9
400	60,1
500	65,0
630	69,5
800	71,9
1000	74,4
1250	80,5
1600	84,2
2000	87,7
2500	91,8 ·
3150	91,6 ·
4000	84,2 #
5000	81,8 #



Índices según UNE-EN ISO 717-1:2013:	R_w ($C;C_{tr}$):	65 (-2; -7) dB
Índices según CTE DB-HR:	R_A:	64,1 dBA
	$R_{A,tr}$:	57,8 dBA

Evaluación basada en resultados medidos en laboratorio obtenidos mediante un método de ingeniería.

*R' ≥ valor indicado (límite medida por aprox. ruido de fondo y R'_{max}). R'_{max} 2500 Hz = 102,4 dB; 3150 Hz = 101,2 dB
R' ≥ valor indicado (límite medida por aprox. R'_{max}). R'_{max} 4000 Hz = 96,9 dB; 5000Hz: 94,1dB.

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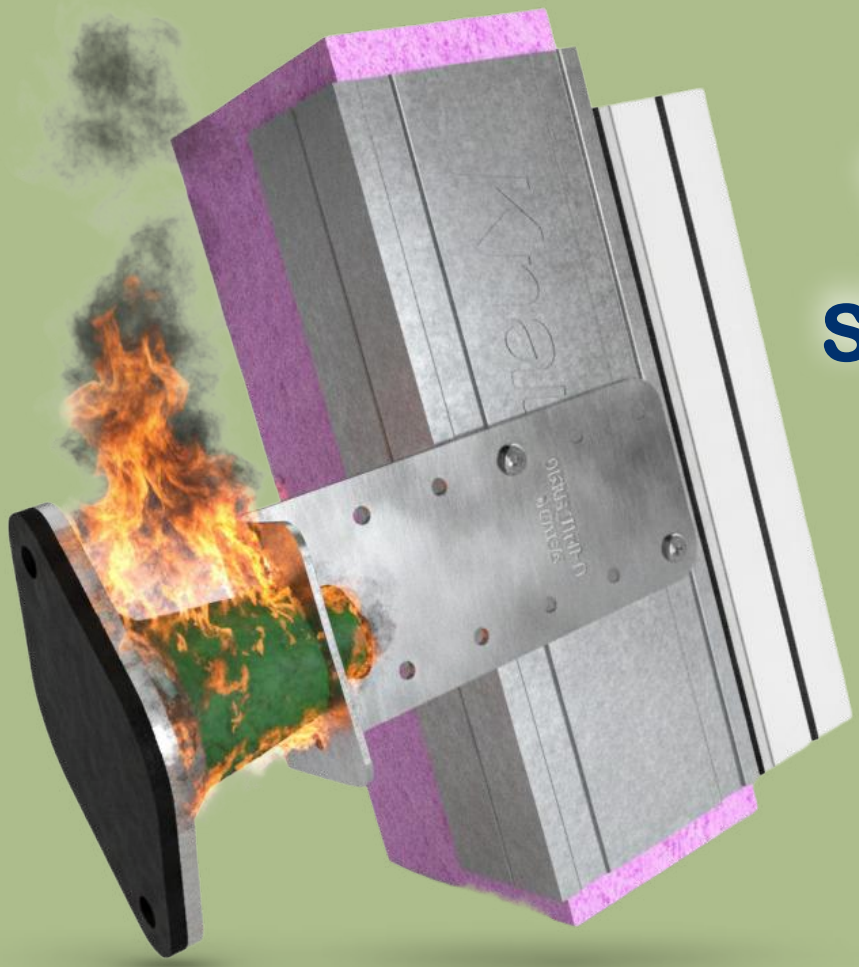

SENOR

SAFETY

It incorporates a central **steel shaft**, a material known for its strength and durability, which acts as a line of defence against **fire** that might originate inside the system, specifically within the rubber. In situations where there is an exponential rise in temperature, the acoustic system is at risk of damage, with the rubber being the most vulnerable component of this assembly. Should the temperature exceed **120°C**, the rubber disintegrates, which could compromise the integrity of the system; however, the assembly remains secure thanks to the robustness of its central steel shaft, thus guaranteeing a level of **MAXIMUM SAFETY** that protects against potential incidents. This design is essential to ensure that, even if the rubber fails, the fundamental structure remains intact and operational.