V2

Akustik + sylomer® by getzner

BUILDING ACOUSTICS FOR CONSTRUCTION

AMC MECANOCAUCHO

ABOUT AMC MECANOCAUCHO

Aplicaciones Mecánicas del Caucho (AMC) is a company that designs and produces anti-vibration mounts as well as noise insulation composites for the industrial and building sectors.

Since 1969 we have been developing noise and vibration solutions for a wide range of applications. To meet the demands of each project our products combine the properties of different isolating materials such as rubber, metal, springs and Sylomer.

Our dedicated engineering team are on hand to offer technical support with vibration calculations and product advice. On our website akustik.com you will find access to an extensive range of technical data for our products as well as calculation tools such as our acoustic mount selector. This tool allows the input of your system specifications and provides a recommendation of ceiling and floor mounts to meet the requirements of your project. Our library of acoustic test data is also available to view using our dB finder tool, this details the acoustic data we have obtained for various ceiling, wall and floor systems.

With a wide variety of clients served from across the world, we are ready to provide you with a personalised acoustic solution to your problem.

The box-in-box technique

Is used in rooms that generate noise and require high levels of vibration isolation, such as a gym in a hotel or a recording studio. It involves decoupling the floor, walls, and ceiling through elastic suspension in order to mitigate transmission of structural and airborne noise.

This allows for a space within a space to be insulated against unwanted noise. The ceiling is suspended with acoustic hangers, the walls with wall ties, and the floor with floating floor mounts.

Calculation Tools
App & Test Data

ACOUSTIC HANGER PRO

The acoustic hanger pro selection tool (on our website and phone app) provides you with a recommendation on acoustic hangers and floor mounts for your personalised system characteristics.

Acoustic Hanger Selection Website Tool

Download the Acoustic Hanger ProApp!

AKUSTIK DB FINDER

Another useful tool on our website, the dB finder, contains a catalogue of acoustic testing data for various ceiling, wall, and floor structures.

You can utilise this data to visualise how effectively various isolation systems work in order to better understand how to address your particular acoustic problems.

Akustik dB Finder

Box in Box
Products & Materials

These products come in **three different materials**: rubber, Sylomer, and spring, with the selection of the material depending on the **specific requirements** of the system. For example, for a cheaper solution requiring just medium vibration isolation, rubber would work well. However for solutions requiring, for solutions requiring very high levels of isolation, a combination of spring and Sylomer should be used.

Rubber

Natural frequency **between 10-15Hz**.
Effective in medium and high frequencies.
Small static deflection. High damping

Sylomer

Natural frequency **between 7-12Hz**.
Effective in medium and high frequencies.
Very small static deflections

Spring

Natural frequency **between 2-7Hz**.
Effective in low and medium frequencies.
Large static deflections. Low damping

Detailed drawings, elastic properties and installation videos for each part can be found on our website

akustik.com

Technical Characteristics | Elastic properties | Dowloads | Videos | Images

DOWLOADS

↓ **Data Sheet**
PDF - 1.31 Mb.

↓ **Installation FZH2M**
PDF -

APPLICATION REFERENCES

Acoustic Hangers
Why & Installation

Akustik 1 + Sylomer

These acoustic hangers have been conceived for the suspension of false ceilings, vibrating pipelines and machinery that has to be suspended.

Akustik GB + Sylomer

These simple but effective acoustic hangers have been designed for installations where a lateral connection to a wooden joist is required.

Acoustic hangers are used to isolate ceilings from the transmission of structure borne noise. **Our hangers** can be supplied with a range of unique attachments, each designed to suit different ceiling types and supporting metal profiles, making the installation process easier.

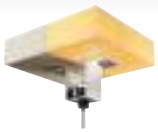
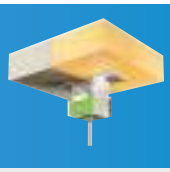
Springtec Super T47

Range designed for suspensions of suspended acoustic ceilings and machinery working at **more than 450 r.p.m**

VT

The VT hangers consist of a high performance steel spring and also incorporate a rubber bush.

Acoustic Hangers
Technical Info

	Maximum Load (Kg)	Natural Frequency Range (Hz)	Minimum Space Required (mm)	
	5 - 60	5 - 7	86	Springtec
Springtec + Sylomer	5 - 60	3 - 4	112	
	8 - 60	11 - 15	47	Akustik
Akustik + Sylomer	15 - 75	7 - 11	47	
	25 - 125	4 - 5	150	SRB
SRS + Sylomer	25 - 150	3 - 4	150	
	40 - 150	11 - 15	65	Grand Akustik
Grand Akustik + Sylomer	60 - 150	7 - 11	65	
	67 - 150	3.5 - 4.5	220	VT HD
VT	8 - 750	5 - 7	120	

Wall Ties
Why & Installation

EP 700 + Sylomer

These acoustic ties provide a simple and effective way to reduce the structure borne noise that can travel through a wall. They are versatile and can be adapted to a range of different wall profiles.

EP 500

The EP500 is installed at the base of the wall structure to support the vertical loads and provide an elastic separation to the floor below.

Our wall ties can be supplied with a range of unique attachments, each designed to suit different wall types and supporting metal profiles, making the installation process easier.

EP + Sylomer

An acoustic tie for the separation of wall structures and pipework. A **"FAIL SAFE"** and overload proof design is achieved with interlocking metal components.

Wall Ties
Technical info

	Maximum Load (Kg)	Natural Frequency Range (Hz)	Minimum Space Required (mm)	
	30	≥8	27	EP + Sylomer
EP 400 + Sylomer	30	≥8	72	
	60	≥15	21.5	EP 500 + Sylomer
EP 650 + Sylomer	30	≥8	85.5	
	15 - 75	≥8	33	EP 700 + Sylomer
EP + Sylomer LMR	20	≥8.5	85	
	8 - 30	≥17	17.5	Akustik + Sylomer Sound Clip

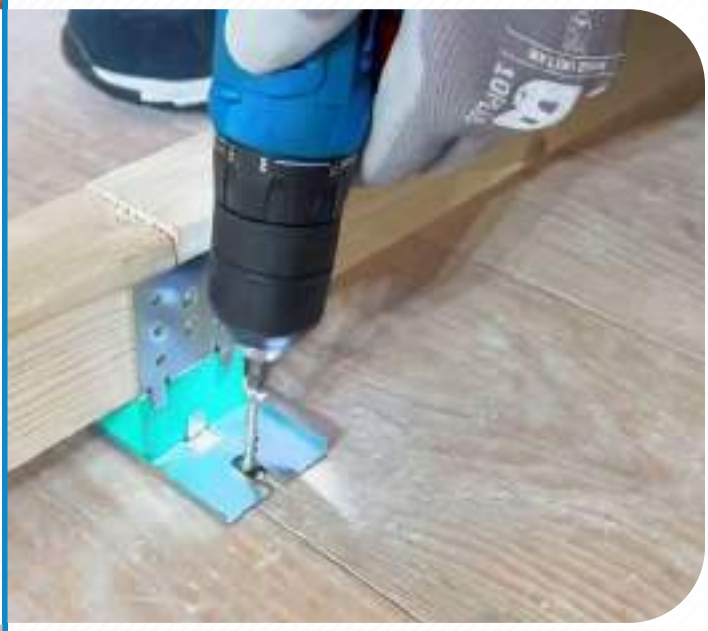
Floating Floor Mounts
Why & Installation

FZH2M SPRING + SYLOMER

The goal of the system is to avoid the structure borne noise installing elastical mounts that are embedded in the concrete floating floor. The process of elevation is done once the concrete is dry.

MORE INFO

INSTALLATION VIDEO



AKUSTIK + SYLOMER FLOOR MOUNTS

A floating floor mount specifically designed for use with wooden battens, they are manufactured in three special mixes and thickness of Sylomer® to adapt better to the load of each application.

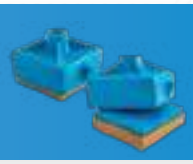
MORE INFO

AFS + SYLOMER

Akustik+Sylomer® Floor Spring AFS have been conceived for the suspension of floating floors where high performance is required at low frequencies.

MORE INFO

Floating Floor Mounts
Technical info

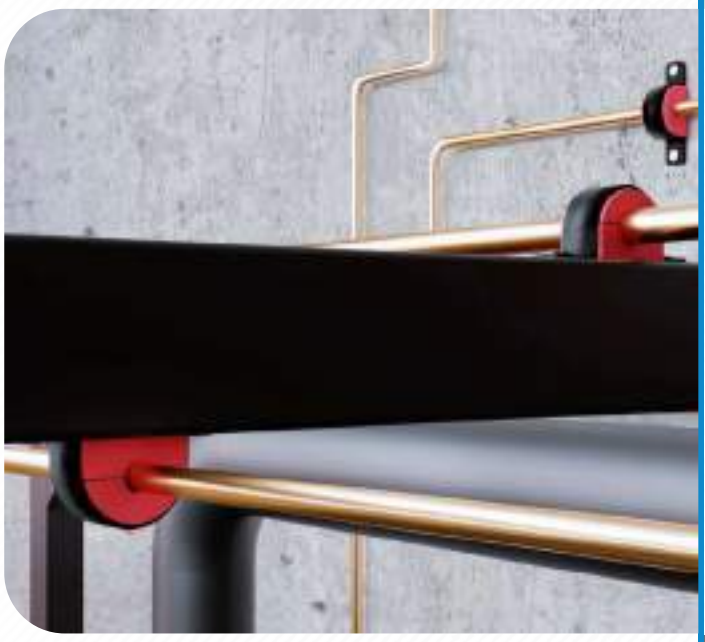
	Maximum Load (Kg)	Natural Frequency Range (Hz)	Minimum Space Required (mm)	
	25 - 100	9.5 - 12.5	27	Akustik+Sylomer Floor mount
AFS + Sylomer	25 - 150	3.5 - 8	103	
	10 - 820	8 - 12	25	Sylomer Pad
AFB Sylomer Floor Block	35 - 160	8 - 14	50	
	50 - 400	12 - 20	28	BF FLoor Bearings
FZH + Sylomer	140 - 960	8 - 14	90	
	915 - 2409	3.5 - 8	150	FZH Spring + Sylomer
TSR	7.5 - 3900	7.5 - 13.5	31	

Machinery Mounts
Why & Installation

TLG + SYLOMER

Used to isolate structure borne noise, primarily on parking garage door frames.

MORE INFO



AKUSTIK PIPE OMEGA

Used to secure rigid or flexible pipework in machinery.

MORE INFO

VIDEO

AKUSTIK PIPE

Used to secure rigid or flexible pipework in machinery.

MORE INFO

Machinery Mounts
Why & Installation

MPR + SYLOMER

Used for impact insulation of weight stacks or plates.

MORE INFO

VIDEO

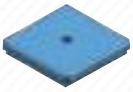
AKUSTIK FIT

Used for insulation of gymnasium machinery.

MORE INFO

Gym T4

TSR



VIDEO

AKUSTIK VENTILATOR

Used for acoustic isolation of fans and light weight hanging equipment.

MORE INFO

References
Case Studies

Link to **CASE STUDY**

University of Deusto
San Sebastian, Spain

FZH + Sylomer
EP 400 and EP 600

UNIVERSITY

Link to **CASE STUDY**

Apartment Building
Vienna, Austria

Akustik GB + Sylomer

APARTMENT BUILDING

RESTAURANT

Link to **CASE STUDY**

Wasa Alle Restaurant
Gothenburg, Sweden

Akustik 1 + Sylomer

References
Case Studies

Link to **CASE STUDY**

Music School
Tiana, Spain

Akustik + Sylomer Floor Mount

Link to **CASE STUDY**

Apartment Building
Frankfurt - Germany

EP 700 + Sylomer

Link to **CASE STUDY**

Gym
Paris France

MPR + Sylomer **TSR Fit**

AMC
MECANOCAUCHO

Our **expertise lies** in the **building** and **industrial acoustics field,** with a dedicated **technical department.** We have skilled engineers situated across various countries who are prepared to comprehend your specific situation and offer suitable solutions. Don't hesitate to **get in touch with our main office or explore our websites** and social media platforms.

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