GERMAN CAR AUDIO

Rainbow Audio GmbH
Bernbrunnerstr. 54
74831 Gundelsheim Germany
http: //www.rainbow-audio.de

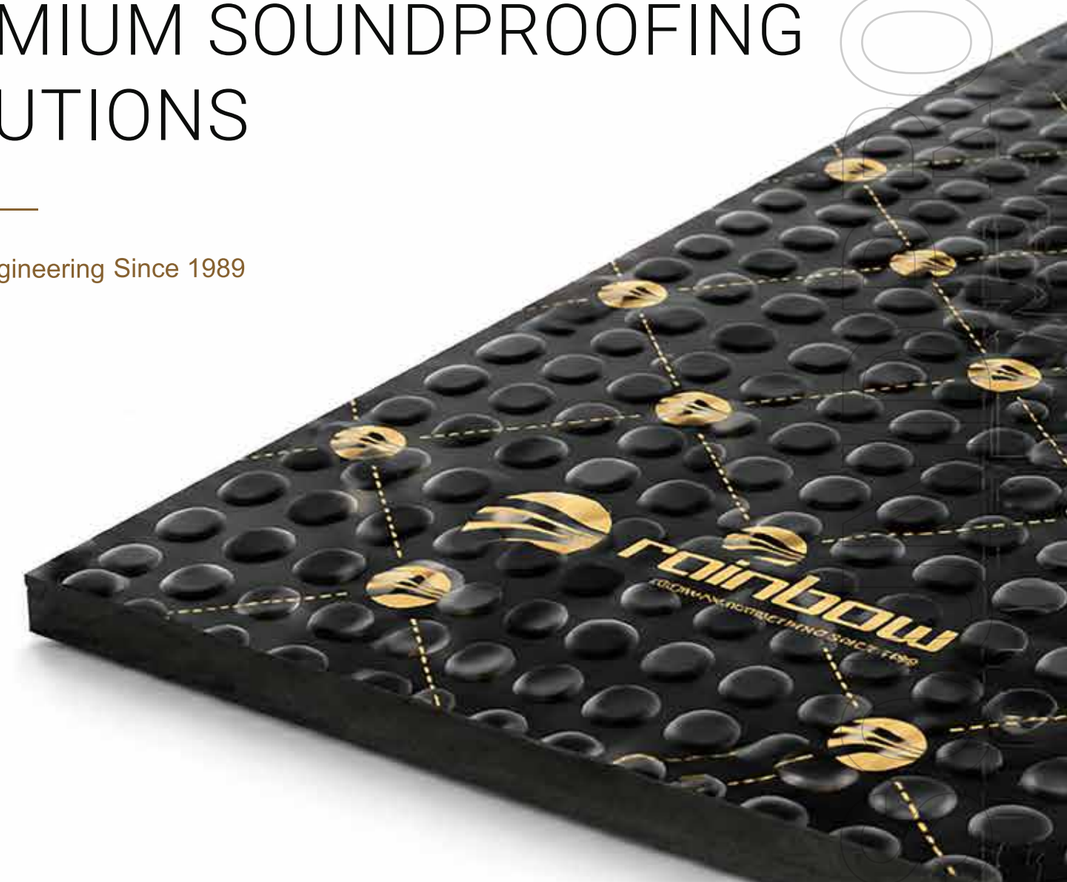
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rainbow

RAINBOW AUDIO

PREMIUM SOUNDPROOFING SOLUTIONS

German Engineering Since 1989



SOUNDPROOFING

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PREMIUM SOUNDPROOFING CATALOG



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FOR SILENCE

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RAINBOW AUDIO PREMIUM SOUNDPROOFING SOLUTIONS



Acoustic Insulation

Rainbow audio introduces the concept of noise equilibrium, recognizing that noise can be categorized into low, mid, and high frequencies. Tailored products and solutions are then implemented, taking into consideration the vehicle's design, spatial structure, and noise sources. The goal is to reduce and isolate unnecessary noise while preserving enjoyable and essential sounds. This effort aims to enhance the in-vehicle environment and achieve acoustic harmony.

TECHNOLOGY & MATERIALS

PREMIUM SOUNDPROOFING SOLUTIONS



Eco-Friendly Soundproofing

Rainbow audio employs environmentally friendly materials for its soundproofing solutions, with products holding certificates of approval from the Indian Register Quality System and TÜV, attesting to their exceptional quality and commitment to environmental sustainability. These certifications guarantee that the products pose no risks or hazards to human health or the surrounding environment.

Technological Noise Reduction

Rainbow audio's NVH research and development team strategically positioned its production facility in Russia, leveraging the country's advanced military soundproofing production techniques and extensive experience. By combining state-of-the-art soundproofing theories with innovative product design, rainbow audio has successfully introduced a meticulously crafted series of soundproofing solutions.

PLATINUM LINE

Damping Material

The rainbow Platinum line vibration damping panel comprises embossed aluminum foil, elastic organic adhesive layer, and viscous polymer layer. With its high density, strong hardness, and substantial thickness, it effectively attenuates vibrations in automotive sheet metal, regulates low-frequency noise, and provides effective barrier against direct contact between water, oxygen, and the metal surface, thus preventing corrosion.

Acoustic Absorption

★★★★★★★★☆☆

Sound Insulation

★★★★★★★★☆☆

Vibration Damping

★★★★★★★★★★

Thermal Insulation

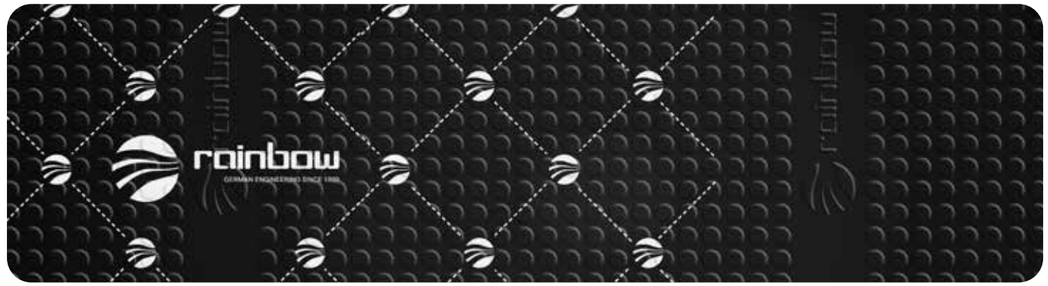
★★★★★★★★☆☆



Installation Area

Car doors, roof panel, firewall, wheel hubs, rear trunk, and engine hood, etc.

PT-D4.2



Technical Specifications

No.	Coefficient nomination	Specification	Testing method
1	Sheet size (mm)	450 x 375	——
2	Package contains (sheets)	12	——
3	Thickness (mm)	4.2	GOST 1 7073-71
4	Maximum weight (kg/㎡)	6	GOST 1 7073-71
5	Mechanical loss rate (≤10°C) +20 °C +40 °C	 0.40 0.27	DIN EN ISO 6721-3:1996
6	Flammability, with a combustion rate not exceeding (mm/min)	non-flammable 100	GOST 25076-81
7	Adhesive durability during peeling (N/cm)	5	TD 5779-043-48214265-2006
8	Durability of the bond between the covering material and the adhesive layer (N/cm)	0.5	GOST-017317-88

Part-Nr.280062

PLATINUM LINE

Insulation Material

The rainbow Platinum line panel is composed of plasticizers, mineral fillers, non-woven fabric, butyl rubber, and release paper. It demonstrates a formidable ability to reflect noise, making it an excellent companion to damping sheets and sound insulation panel. When used together, they form an exceptional combination for soundproofing purposes.

Acoustic Absorption

★★★★★★★☆☆☆

Sound Insulation

★★★★★★★★★☆

Vibration Damping

★★★★★★★★★☆

Thermal Insulation

★★★★★★★★★☆



Installation Area

Chassis and trunk compartment.

PT-I3.0



Technical Specifications

No.	Coefficient nomination	Specification	Testing method
1	Sheet size (mm)	375 x 450	——
2	Package contains (sheets)	15	——
3	Thickness (mm)	3	GOST 1 7073-71
4	Maximum weight (kg/ ㎡)	6	GOST 17073-71
5	Flammability, with a combustion rate not exceeding (mm/min)	non-flammable 100	GOST 25076-81
6	Minimum adhesion strength (N/cm) between the material and metal surface during peeling	2	Method №4 Avtoplastik LLC
7	Durability (N/cm) of the bond between the covering layer and the sticky polymer layer	0.01-0.50	GOST 17317–88
8	Sound insulation effect (dB) within the frequency range of 100-3150Hz, min	30	GOST 27296

Part-Nr.280067

PLATINUM LINE

Absorbing Material

Rainbow Platinum line absorbing panel is composed of open-cell elastic polyurethane foam, which exhibits a unique "memory function". Through the ingenious spatial arrangement developed by our team of engineers, this product delivers a remarkable enhancement in sound absorption efficiency. It finds extensive applications in various vehicle-related soundproofing, vibration damping, and thermal insulation requirements. With a wide operating temperature range of -40°C to 150°C, it is well-suited for installation in plastic components within the vehicle interior.

Acoustic Absorption

★★★★★★★★★★

Sound Insulation

★★★★★★★★☆☆

Vibration Damping

★★☆☆☆☆☆☆☆☆

Thermal Insulation

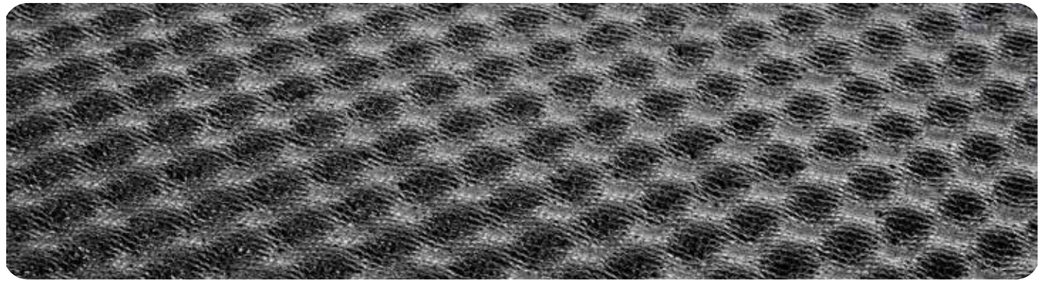
★★★★★★☆☆☆☆



Installation Area

Door panel, roof, plastic components within the passenger cabin.

PT-A10.0



Technical Specifications

No.	Coefficient nomination	Specification	Testing method
1	Sheet size (mm)	375 x 500	——
2	Package contains (sheets)	10	——
3	Thickness (mm)	10	GOST 1 7073-71
4	Flammability, combustion rate (mm/min)	non-flammable 100	GOST 25076-81
5	Bonding strength between the material and anti-adhesive film or paper (N/cm)	2	Method №4 Avtoplastik LLC
6	Maximum sound absorption coefficient	0.6	GOST 16297
7	Bonding strength between the material and installation surface during 90-degree peeling (N/cm), at least	2	Method №4 Avtoplastik LLC
8	Tensile strength at break, not less than (kPa)	2.3	Method №113 Avtoplastik LLC

Part-Nr.280066

PROFI LINE

Damping Material

The rainbow Profi line vibration damping panel represents the outcome of extensive research in lightweight soundproofing. It comprises a dual-layer of remarkably rigid aluminum foil and a resin adhesive layer that effectively suppresses metal vibrations. Furthermore, it exhibits outstanding corrosion resistance and superior sealing capabilities.

Acoustic Absorption

★★★★★★★★☆☆☆

Sound Insulation

★★★★★★★★☆☆☆

Vibration Damping

★★★★★★★★★★

Thermal Insulation

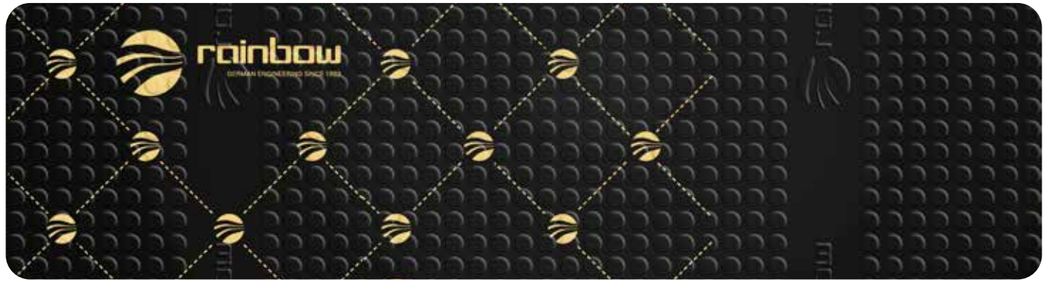
★★★★★★☆☆☆☆



Installation Area

Rear trunk, wheel hubs, chassis, engine hood, roof, doors, firewall, etc.

PL-D3.5



Technical Specifications

No.	Coefficient nomination	Specification	Testing method
1	Sheet size (mm)	450 x 375	——
2	Package contains (sheets)	14	——
3	Thickness (mm)	3.5	GOST 1 7073-71
4	Maximum weight (kg/m²)	5.5	GOST 17073-71
5	Mechanical loss rate (≤10°C)	0.3	GOST R 56803 method A (ISO 6721-3A) DIN EN ISO 6721-3A
6	Flammability, with a combustion rate not exceeding (mm/min)	non-flammable 100	GOST 25076
7	Minimum adhesive durability (N/cm) after 2 hours of installation, when peeled at a 90-degree angle	5.0 (pure) 4.0 (mog) 3.0 (b/r, coh)	Method №4 Avtoplastik LLC
8	Foil (out) thickness (μm)	100	GOST 17073-71
9	Foil (inner) thickness (μm)	100	GOST 17073-71

Part-Nr.280063

PROFI LINE

Insulation Material

The rainbow Profi line insulation material is composed of a smooth surface layer, an installation layer, and a partially closed-cell structure. It exhibits impressive noise-blocking capabilities and provides excellent thermal insulation performance. Moreover, it demonstrates exceptional durability and longevity.

Acoustic Absorption

★★★★★★★★★★☆

Sound Insulation

★★★★★★★★★★★

Vibration Damping

★★☆☆☆☆☆☆☆☆☆

Thermal Insulation

★★★★★★★★★★★



Installation Area

Car doors, roof, firewall, wheel hubs, trunk, engine hood, etc.

PL-I6.0



Technical Specifications

No.	Coefficient nomination	Specification	Testing method
1	Sheet size (mm)	375 x 500	——
2	Package contains (sheets)	16	——
3	Thickness (mm)	6	GOST 25015-81
4	Protective layer thickness (mm)	0.3-0.4	GOST 25015-81
5	Bonding strength between the anti-adhesive layer and the installation layer, min (N/cm)	0.05-0.20	GOST 17317-88
6	Bonding strength between the material and the installation layer, min (N/cm)	3	TD 2244-050-48214265-2006
7	Bonding strength between layers of the multi-layered semi-finished product, min (N/cm)	2.5	GOST 17317-88
8	Bonding strength between the decorative layer and the polyethylene foam, min (N/cm)	1.5	GOST 17317-88

Part-Nr.280065

SOUND LINE

Damping Material

The rainbow Sound line vibration damping panel not only exhibits superior damping performance but also serves as a versatile waterproof material, making it an epitome of ultra-thin, technology-driven damping products.

Acoustic Absorption

★★★★★★☆☆☆☆

Sound Insulation

★★★★★★☆☆☆☆

Vibration Damping

★★★★★★★★☆☆

Thermal Insulation

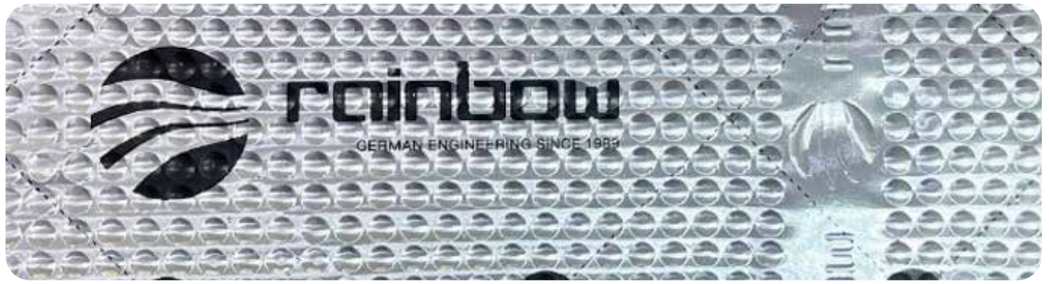
★★★★★★☆☆☆☆



Installation Area

Rear trunk, wheel hubs, chassis, engine hood, roof, doors, and firewall, etc.

SL-D2.1



Technical Specifications

No.	Coefficient nomination	Specification	Testing method
1	Sheet size (mm)	450 x 750	———
2	Package contains (sheets)	12	———
3	Thickness (mm)	2.1	GOST 17073-71
4	Maximum weight (kg/ ㎡)	3.1-4.7	GOST 17073-71
5	Mechanical loss rate (≤10°C)	0.25	GOST R 56803 method A (ISO 6721-3A) DIN EN ISO 6721-3A
6	Flammability, with a combustion rate not exceeding (mm/min)	non-flammable 100	GOST 25076-81
7	Minimum adhesive durability (N/cm) after 2 hours of installation, when peeled at a 90-degree angle	4.0 (mog) 2.5 (b/r, coh)	Method №4 Avtoplastik LLC
8	Foil (out) thickness (μm)	100	GOST 17073-71

Part-Nr.280064

EXPERIENCE LINE

Experience Line EL-D2.0 is a professional automotive damping and soundproofing sheet composed of aluminum foil, viscoelastic butyl rubber, and release liner. Manufactured through intensive mixing, screw extrusion, and lamination, it delivers excellent vibration damping, noise reduction, sealing, and anti-rust performance.

Designed for passenger vehicles, EL-D2.0 is ideal for door panels, roof panels, the fire-wall, wheel wells, the trunk, and the hood, effectively reducing structural vibration, road noise, and dynamic stresses while improving overall acoustic comfort.

RAINBOW EXPERIENCE LINE PROFESSIONAL DAMPING MATERIAL

- Best Noise Reduction Properties
- Best Acoustic Treatment Properties
- Best Vibration Reduction Properties
- Best Reduction Of Dynamic Stresses
- Easy Installation
- Long Life Guarantee
- Consolidate The Vehicle Body
- Decrease The Amplitude Of The Speed Fluctuation
- Highest Sealing Properties
- Best Antirust Properties
- Produced With New Formula

EL-D2.0



Technical Specifications

No.	Coefficient nomination	Specification	Testing method
1	Sheet size (mm)	800 X 460	——
2	Package contains (sheets)	20 sheets / 12 sheets	——
3	Thickness (mm)	2.0 - 2.1	Caliper measurement



Installation Area

Car doors, roofs, firewalls, wheels, trunk lids, engine hoods, and more.

Part-Nr.280080

PRODUCT DISPLAY

PT-D4.2
Damping Material

Part-Nr.280062



PT-I3.0
Insulation Material

Part-Nr.280067



PT-A10.0
Absorbing Material

Part-Nr.280066



PL-D3.5
Damping Material

Part-Nr.280063



PL-I6.0
Insulation Material

Part-Nr.280065



SL-D2.1
Damping Material

Part-Nr.280064



EL-D2.0

Part-Nr.280080

