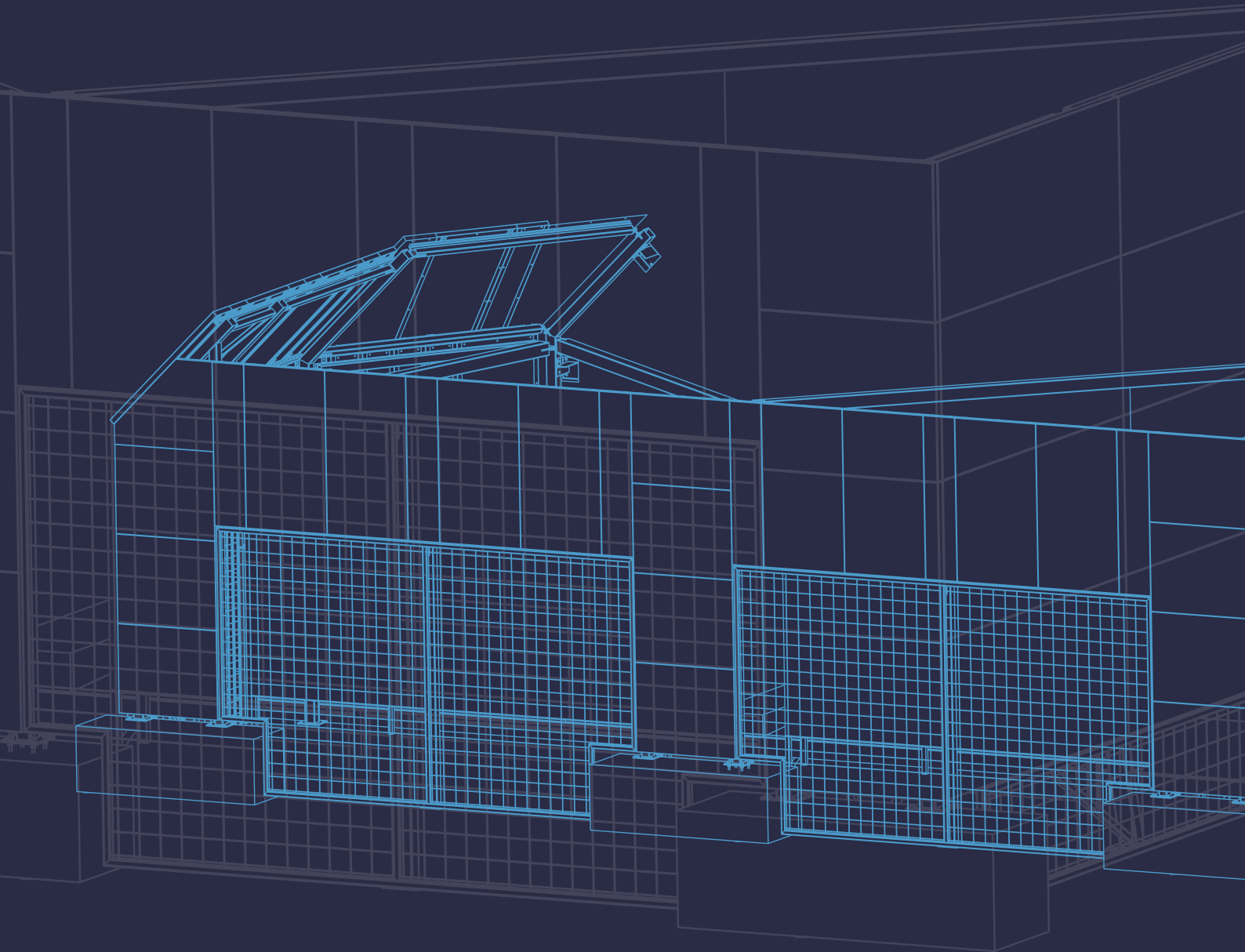


NOISEPROOFING SOLUTIONS

# NOISEPROOFING PANELS R

## TECHNICAL DATA SHEET



## NOISE-PROOFING PANEL R-53



### DESCRIPTION:

The double-sided insulating noise-proofing panel R-53 is the most used panel from the entire R series. The panel was developed to achieve high sound insulation with minimum thickness. The combination of internal layers provides the required sound insulation for a wide range of noise-proofing solutions. The panel is designed to be compatible with any AKUSYSTEM product.

### DIMENSIONS:

Thickness: 53 mm

Width: 320 and 820 mm

Length: 1000, 1500 and 2000 mm

Possibility to deliver atypical dimensions.

### MATERIAL COMPOSITION:

steel sheet, acoustic layers

### COLOR OPTIONS:

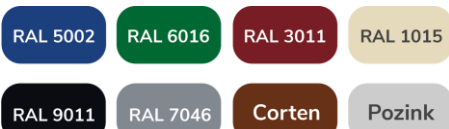
Interior application:

powder coating

Exterior application:

powder coating,

galvanized steel sheet



### APPLICATION:

The noise-proofing panels of the R series are used when a higher degree of sound insulation without the requirement of sound absorption is required. These panels are usually part of acoustic enclosures, which are made by a combination of the noise-proofing panels R series and P series. These panels are also a suitable building element used in the construction of dividing structures in the industrial factories.

### ASSEMBLY:

The panels can be mounted on the supporting framework horizontally or vertically. Repeatable assembly and disassembly of the panels is possible using the pre-prepared M8 anchoring threads. It is necessary to use sealing self-adhesive tapes to ensure the declared sound insulation values.

## PANEL

# R



### ACOUSTIC PROPERTIES

$R_w = 46,0 \text{ dB}$  (according to STN EN ISO 717-1:2013)\*

Frequency (Hz)	63	80	100	125	160	200	250	315	400	500
R (dB)	15,70	17,50	18,50	26,30	31,50	32,10	38,80	44,30	44,80	42,40
Frequency(Hz)	630	800	1000	1250	1600	2000	2500	3150	4000	5000
R (dB)	41,30	46,60	49,40	47,50	51,20	51,10	53,00	54,20	54,10	52,30

\* - Laboratory of Building Physics, Radlinského 11, 810 05 Bratislava

## NOISE-PROOFING PANEL R-80



### DIMENSIONS:

Thickness: 80 mm

Width: 320 and 820 mm

Length: 1000, 1500 and 2000 mm

Possibility to deliver atypical dimensions.

### MATERIAL COMPOSITION:

steel sheet, acoustic layers

### COLOR OPTIONS:

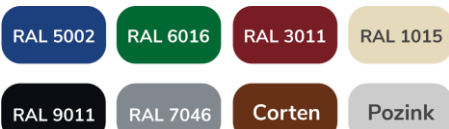
Interior application:

powder coating

Exterior application:

powder coating,

galvanized steel sheet



### DESCRIPTION:

The double-sided insulating noise-proofing panel R-80 was developed to achieve higher sound insulation at lower frequencies. The combination of internal layers provides the required sound insulation for a wide range of the noise-proofing solutions. The panel is designed to be compatible with any AKUSYSTEM product.

### APPLICATION:

The noise-proofing panels of the R-80 series are used when a higher level of sound insulation even at lower frequencies is required. These panels are usually part of acoustic enclosures, which are made by a combination of the noise-proofing panels R series and P series. These panels are also a suitable building element used in the construction of dividing structures in the industrial factories and sound studios.

### ASSEMBLY:

The panels can be mounted on the supporting framework horizontally or vertically. Repeatable assembly and disassembly of the panels is possible using the pre-prepared M8 anchoring threads. It is necessary to use sealing self-adhesive tapes to ensure the declared sound insulation values.

## PANEL

# R



### ACOUSTIC PROPERTIES

$R_w = 48,5$  dB (according to STN EN ISO 717-1:2013)\*

Frequency (Hz)	63	80	100	125	160	200	250	315	400	500
R (dB)	19,10	21,70	27,40	34,20	38,90	37,70	40,50	44,80	44,20	40,90
Frequency (Hz)	630	800	1000	1250	1600	2000	2500	3150	4000	5000
R (dB)	41,30	47,00	50,10	50,00	52,00	51,70	54,70	56,20	56,30	55,10

\* - Laboratory of Building Physics, Radlinského 11, 810 05 Bratislava

## NOISE-PROOFING PANEL R-120



### DESCRIPTION:

The double-sided insulating noise-proofing panel R-120 was developed to achieve high sound insulation in the entire frequency spectrum. The combination of internal layers provides the required sound insulation for a wide range of noise-proofing solutions. The panel is designed to be compatible with any AKUSYSTEM product.

### DIMENSIONS:

**Thickness:** 120 mm

**Width:** 320 and 820 mm

**Length:** 1000, 1500 and 2000 mm

Possibility to deliver atypical dimensions.

### MATERIAL COMPOSITION:

steel sheet, acoustic layers

### COLOR OPTIONS:

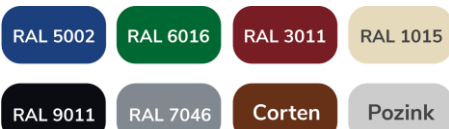
**Interior application:**

powder coating

**Exterior application:**

powder coating,

galvanized steel sheet



### APPLICATION:

The noise-proofing panels of the R-120 series are used when a higher level of sound insulation even at lower frequencies is required. The panel R-120 is usually used for reducing noise of pressing equipment and the production of noise-proofing enclosures with a high level of sound insulation. These panels are also a suitable building element used in the construction of dividing structures in the industrial factories and sound studios.

### ASSEMBLY:

The panels can be mounted on the supporting framework horizontally or vertically. Repeatable assembly and disassembly of the panels is possible using the pre-prepared M8 anchoring threads. It is necessary to use sealing self-adhesive tapes to ensure the declared sound insulation values.

## PANEL

# R



### ACOUSTIC PROPERTIES

$R_w = 53,4$  dB (according to STN EN ISO 717-1:2013)\*

Frequency (Hz)	63	80	100	125	160	200	250	315	400	500
R (dB)	19,50	26,90	28,40	32,10	38,70	41,30	45,00	49,00	49,80	49,90
Frequency (Hz)	630	800	1000	1250	1600	2000	2500	3150	4000	5000
R (dB)	50,10	52,30	54,90	57,70	60,90	61,00	62,70	64,00	63,80	63,30

\* - Laboratory of Building Physics, Radlinského 11, 810 05 Bratislava

## NOISE-PROOFING PANEL R-150



### DIMENSIONS:

**Thickness:** 150 mm

**Width:** 320 and 820 mm

**Length:** 1000, 1500 and 2000 mm

Possibility to deliver atypical dimensions.

### MATERIAL COMPOSITION:

steel sheet, acoustic layers

### COLOR OPTIONS:

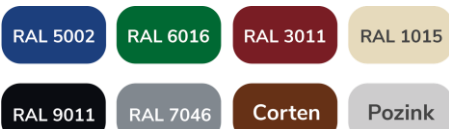
**Interior application:**

powder coating

**Exterior application:**

powder coating,

galvanized steel sheet



### DESCRIPTION:

The basis of the double-sided noise-proofing panel R-150 is a one-sided perforated noise-proofing panel P-120, which is modified with additional acoustic layers. This panel achieves the highest sound insulation values from the entire portfolio of PAR panels. It is acoustically effective in the entire frequency spectrum and the combination of internal layers ensures the required sound insulation for the most difficult noise-proofing solutions.

### APPLICATION:

The noise-proofing panels of the R-150 series are used when the highest level of sound insulation in the entire frequency spectrum is required. The panel R-150 is usually used for reducing noise of stage technology and production of roll door and telescopic theater doors. This panel is also used for reducing noise of pressing equipment and the production of noise-proofing enclosures with a high level of sound insulation.

### ASSEMBLY:

The panels can be mounted on the supporting framework horizontally or vertically. Repeatable assembly and disassembly of the panels is possible using the pre-prepared anchoring system. It is necessary to use sealing self-adhesive tapes to ensure the declared sound insulation values.

## PANEL

# R



### ACOUSTIC PROPERTIES

$R_w = 58,1 \text{ dB}$  (according to ISO 140/3)\*

Frequency (Hz)	63	80	100	125	160	200	250	315	400	500
R (dB)	28,10	31,90	32,90	38,40	42,20	42,10	45,60	52,20	54,00	56,10
Frequency (Hz)	630	800	1000	1250	1600	2000	2500	3150	4000	5000
R (dB)	59,30	63,90	68,20	70,10	70,00	71,40	72,00	74,40	79,00	81,80

\* - Laboratory of Building Physics, Radlinského 11, 810 05 Bratislava

A faint, white wireframe illustration of a building's structural frame, including the roof trusses and wall panels, serving as a background for the contact information.

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