

# TECHNICAL REPORT



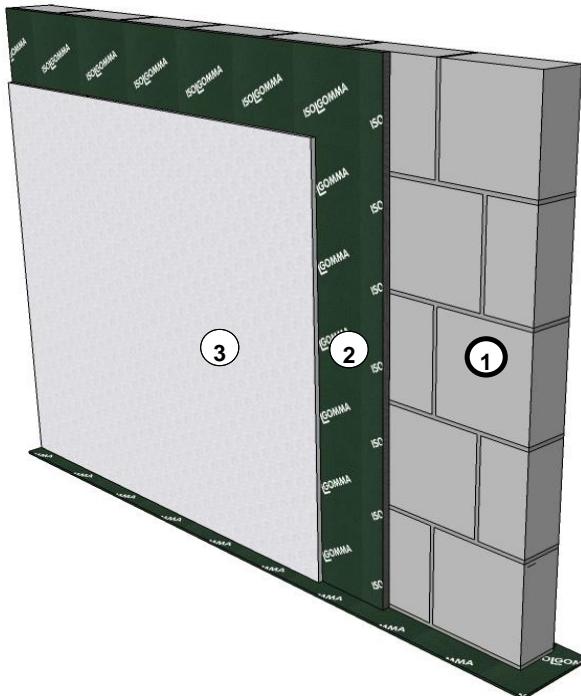
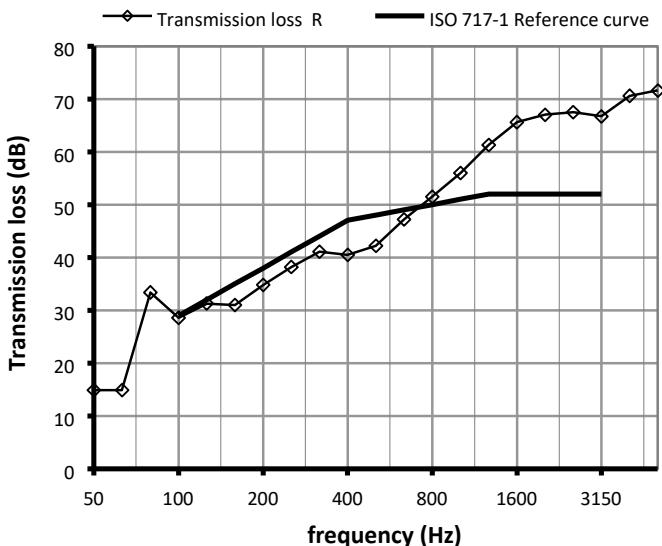
## Predictional calculation of wall insulation

Sienas konstrukcija					
n	Pielietotie materiāli	thickness	conductivity	density	resistance
		s (mm)	$\lambda$ (W/mK)	$\rho$ (kg/m <sup>3</sup> )	R (m <sup>2</sup> K/W)
1	Gāzbetons	100	0.14	425	0.714
2	ISOLGOMMA - Mustwall 10	10	0.109	-	0.092
3	Reģipsis	12.5	0.21	765	0.060
	Total thickness	122.5			
	Superficial thermal resistance (internal surface)				0.130
	Superficial thermal resistance (external surface)				0.130
	<b>U - Total trasmittance (W/m<sup>2</sup>K)</b>				<b>0.888</b>

### Transmission loss weighted index

Evaluation according to  
ISO 717-1:

$$R_w = 48 \text{ dB (*)}$$



(\*)  $R_w$  is defined as the theoretical weighted index of the transmission loss: this index takes into account the characteristics of the adopted materials, the layers composition and the chosen insulation products. It is not a prediction of the site transmission loss ( $R'_w$ ), which takes into account the flanking transmission, the type of joints of the separating element, the volumes of emitting and receiving rooms.



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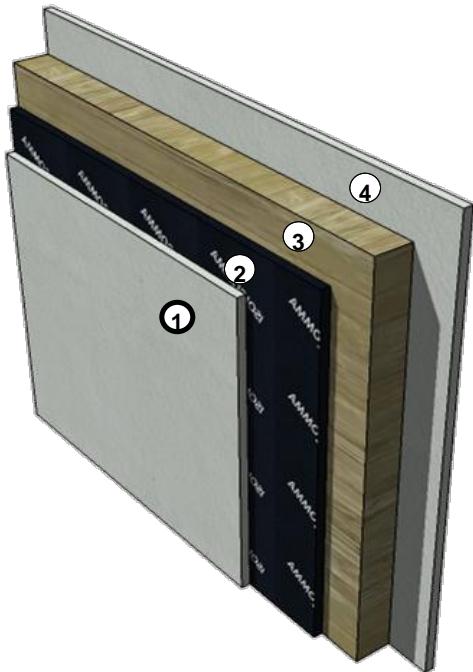
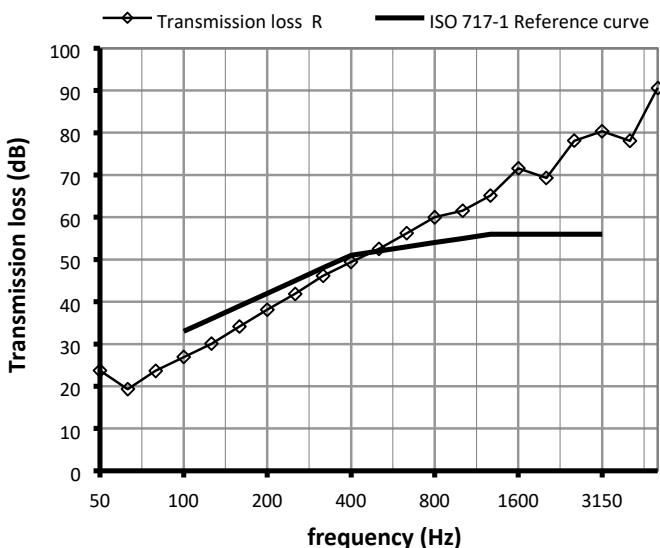
## Predictional calculation of wall insulation

Sienas konstrukcija					
n	Pielietotie materiāli	thickness	conductivity	density	resistance
		s (mm)	$\lambda$ (W/mK)	$\rho$ (kg/m <sup>3</sup> )	R (m <sup>2</sup> K/W)
1	plaster	20	1.4	2200	0.014
2	Isolgomma Mustwall 20	20	0.109	400	0.183
3	wooden base wall	75	0.22	600	0.341
4	plaster	20	1.4	2200	0.014
5					
6					
7					
8					
		Total thickness	135		
Superficial thermal resistance (internal surface)					
Superficial thermal resistance (external surface)					
<b>U - Total trasmittance (W/m<sup>2</sup>K)</b>					<b>1.808</b>

### Transmission loss weighted index

Evaluation according to  
ISO 717-1:

$$R_w = 52 \text{ dB (*)}$$



(\*)  $R_w$  is defined as the theoretical weighted index of the transmission loss: this index takes into account the characteristics of the adopted materials, the composition and the chosen insulation products. It is not a prediction of the site transmission loss ( $R'_w$ ), which takes into account the flanking transmission, the type of joints of the separating element, the volumes of emitting and receiving rooms.



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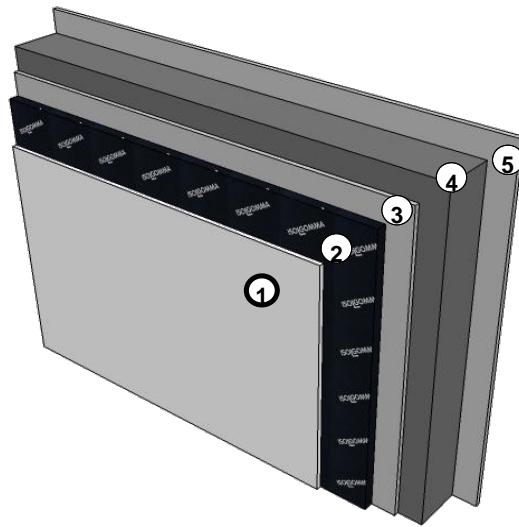
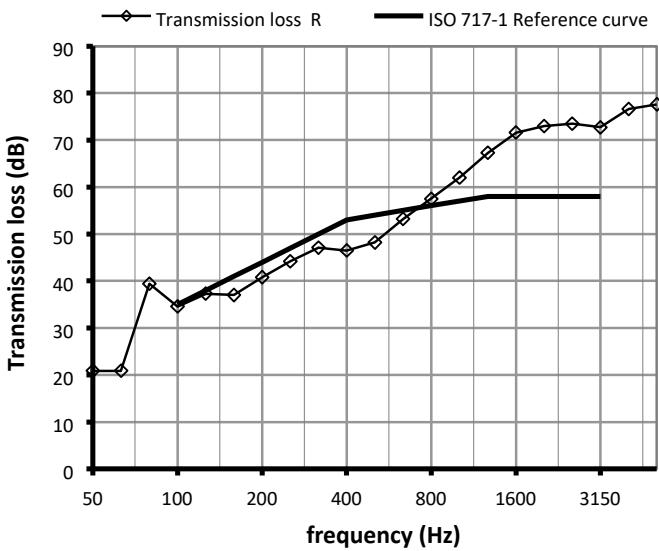
## Predictional calculation of wall insulation

Sienas konstrukcija					
n	Pielietotie materiāli	thickness	conductivity	density	resistance
		s (mm)	$\lambda$ (W/mK)	$\rho$ (kg/m <sup>3</sup> )	R (m <sup>2</sup> K/W)
1	Rēģipsis	12.5	0.21	700	0.060
2	Isolgomma Mustwall 20	20	0.109	800	0.183
3	Apometums	15	0.21	700	0.071
4	Aeroc bloks	200	0.14	400	1.429
5	Apometums	15	0.21	700	0.071
6					
7					
8					
		Total thickness	262.5		
					Superficial thermal resistance (internal surface) 0.130
					Superficial thermal resistance (external surface) 0.130
					<b>U - Total trasmittance (W/m<sup>2</sup>K) 0.482</b>

### Transmission loss weighted index

Evaluation according to  
ISO 717-1:

$$R_w = 54 \text{ dB (*)}$$



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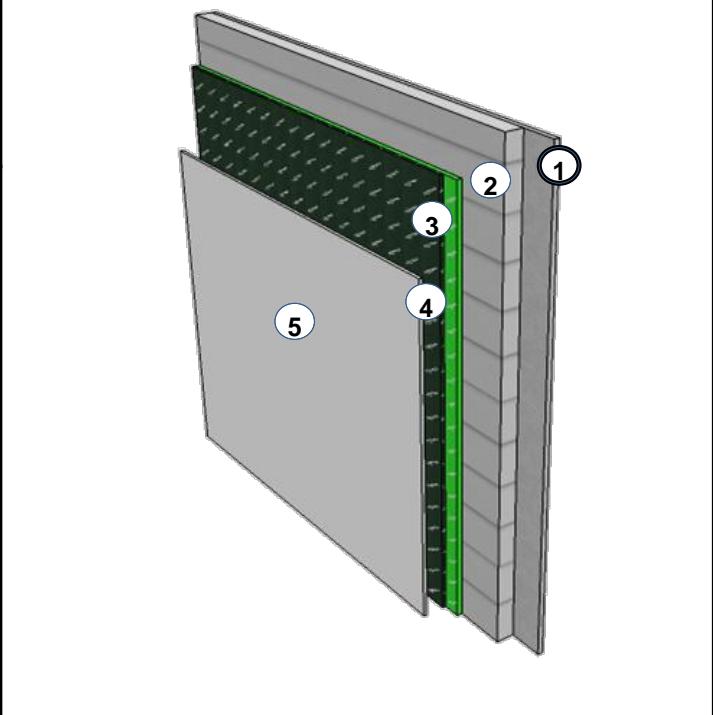
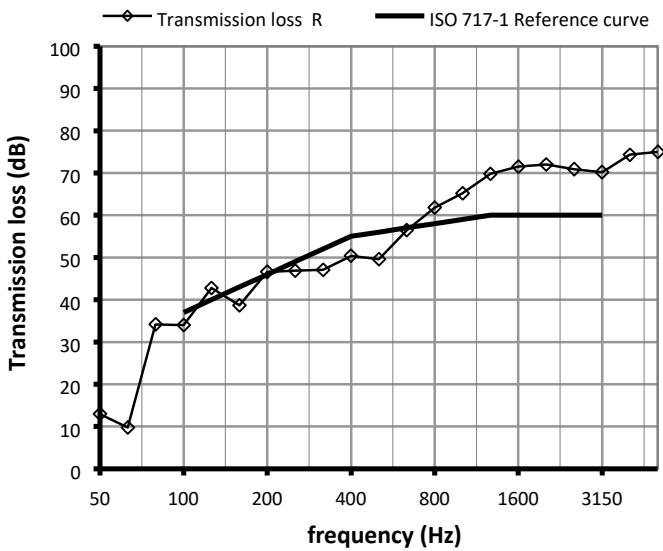
## Predictional calculation of wall insulation

Sienas konstrukcija					
n	Pielietotie materiāli	thickness	conductivity	density	resistance
		s (mm)	$\lambda$ (W/mK)	$\rho$ (kg/m <sup>3</sup> )	R (m <sup>2</sup> K/W)
1	Apmetums	20	1.4	2200	0.014
2	Multi gāzbetona bloks	80	0.24	900	0.333
3	Isolgomma - Rewall 40	40	-	-	0.761
4	Karkass tukšs	50	-	-	0.180
5	Reģiposis	12.5	0.21	700	0.060
6					
7					
8					
		Total thickness	202.5		
				Superficial thermal resistance (internal surface)	0.130
				Superficial thermal resistance (external surface)	0.130
				<b>U - Total trasmittance (W/m<sup>2</sup>K)</b>	<b>0.622</b>

### Transmission loss weighted index

Evaluation according to  
ISO 717-1:

$$R_w = 56 \text{ dB (*)}$$



(\*)  $R_w$  is defined as the theoretical weighted index of the transmission loss: this index takes into account the characteristics of the adopted materials, the layers composition and the chosen insulation products. It is not a prediction of the site transmission loss ( $R'w$ ), which takes into account the flanking transmission, the type of joints of the separating element, the volumes of emitting and receiving rooms.



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## Predictional calculation of wall insulation

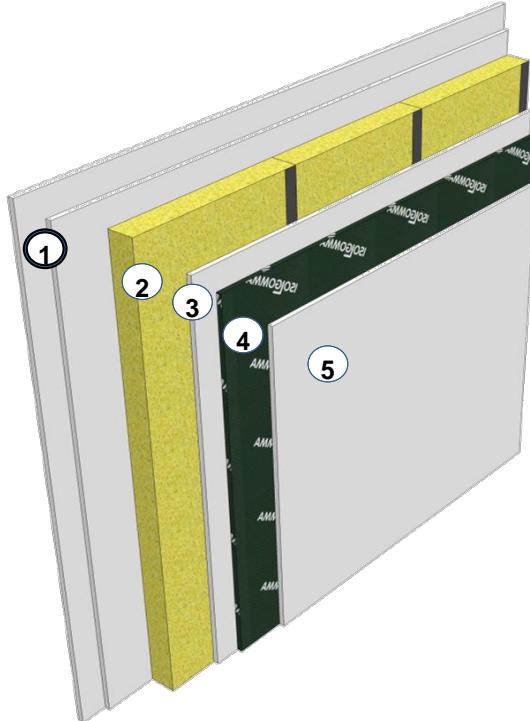
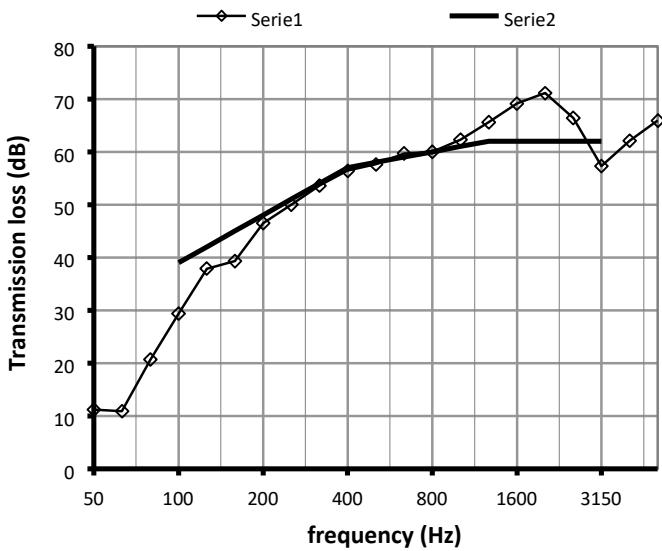
Sienas konstrukcija					
n	Pielietotie materiāli	thickness	conductivity	density	resistance
		s (mm)	$\lambda$ (W/mK)	$\rho$ (kg/m <sup>3</sup> )	R (m <sup>2</sup> K/W)
1	Reģipsis 2 kārtas	25	0.21	700	0.119
2	Minerālvate karkasā	75	0.04	70	1.875
3	Reģipsis Diamant	12.5	0.24	1080	0.052
4	Isolgomma - Mustwall 10	10	0.047	800	0.213
5	Reģipsis Diamant	12.5	0.24	1080	0.052
6					
7					
8					
		Total thickness	135		
				Superficial thermal resistance (internal surface)	0.130
				Superficial thermal resistance (external surface)	0.130
				<b>U - Total trasmittance (W/m<sup>2</sup>K)</b>	<b>0.389</b>

### Transmission loss weighted index

Evaluation according to

ISO 717-1:

$$R_w = 58 \text{ dB (*)}$$



(\*) R<sub>w</sub> is defined as the theoretical weighted index of the transmission loss: this index takes into account the characteristics of the adopted materials, composition and the chosen insulation products. It is not a prediction of the site transmission loss (R'w), which takes into account the flanking transmission, the type of joints of the separating element, the volumes of emitting and receiving rooms.



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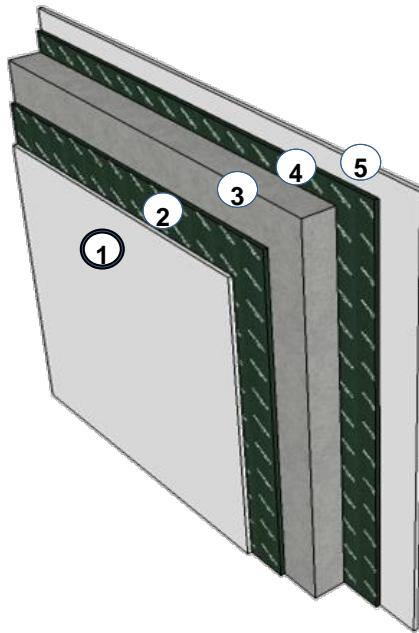
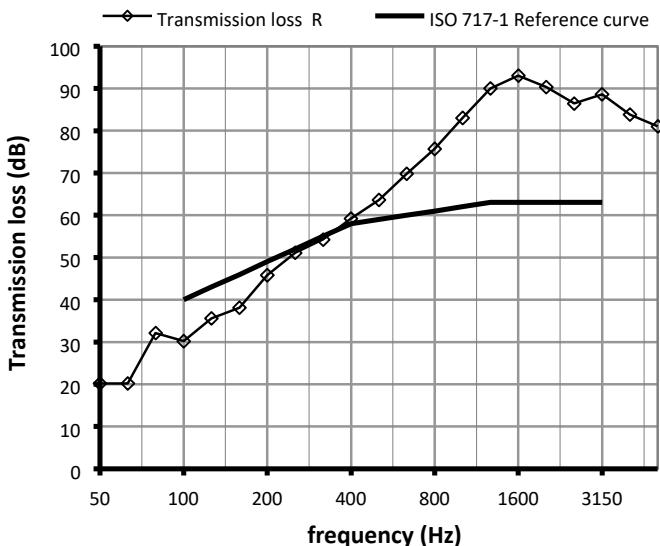
## Predictional calculation of wall insulation

Sienas konstrukcija					
n	Pielietotie materiāli	thickness	conductivity	density	resistance
		s (mm)	$\lambda$ (W/mK)	$\rho$ (kg/m <sup>3</sup> )	R (m <sup>2</sup> K/W)
1	Reģipsis	12.5	0.21	700	0.060
2	<b>Isolgomma - Mustwall 20</b>	20	0.109	800	0.183
3	Fibo bloks	150	0.14	575	1.071
4	<b>Isolgomma - Mustwall 20</b>	20	0.109	800	0.183
5	Reģipsis	12.5	0.21	700	0.060
6					
7					
8					
		Total thickness	215		
Superficial thermal resistance (internal surface)					
Superficial thermal resistance (external surface)					
<b>U - Total trasmittance (W/m<sup>2</sup>K)</b>					<b>0.642</b>

### Transmission loss weighted index

Evaluation according to  
ISO 717-1:

$$R_w = 59 \text{ dB (*)}$$



(\*)  $R_w$  is defined as the theoretical weighted index of the transmission loss: this index takes into account the characteristics of the adopted materials, the layers composition and the chosen insulation products. It is not a prediction of the site transmission loss ( $R'w$ ), which takes into account the flanking transmission, the type of joints of the separating element, the volumes of emitting and receiving rooms.



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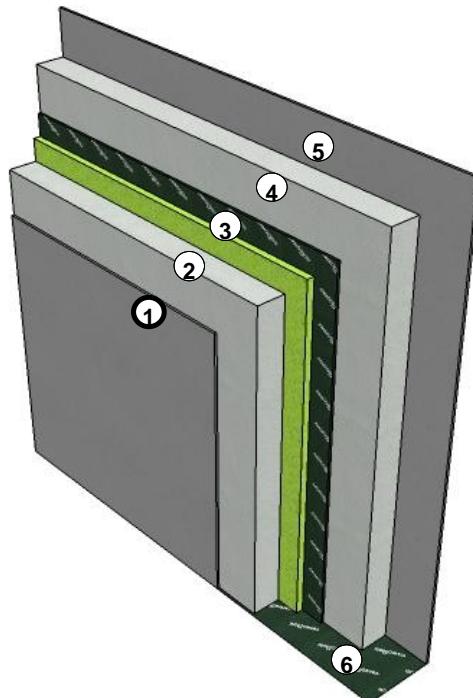
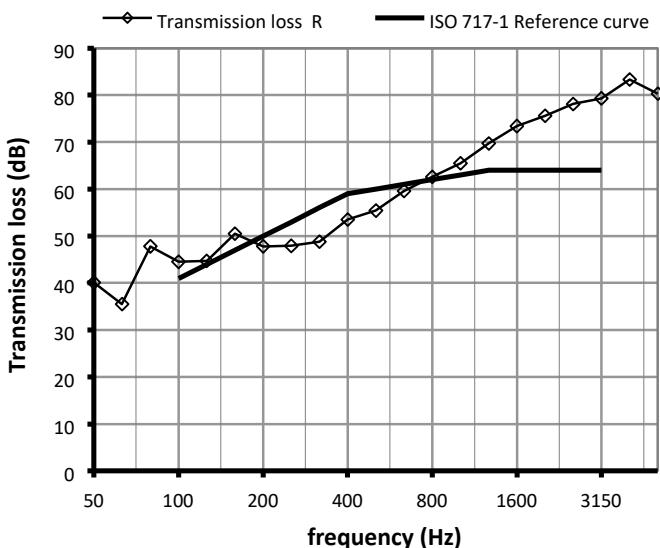
## Predictional calculation of wall insulation

Sienas konstrukcija					
n	Pielietotie materiāli	thickness	conductivity	density	resistance
		s (mm)	$\lambda$ (W/mK)	$\rho$ (kg/m <sup>3</sup> )	R (m <sup>2</sup> K/W)
1	Apmetums	10	1	1800	0.010
2	Silikāta bloks	120	0.16	1500	0.750
3	Isolgomma - Biwall 40	40	0.047	-	0.851
4	Silikāta bloks	120	0.16	1500	0.750
5	Apmetums	10	1	1800	0.010
6	Zemsienu elastīgā lenta Isolgomma Sylpro 10	-	-	-	-
7					
8					
		Total thickness	300		
Superficial thermal resistance (internal surface)					
Superficial thermal resistance (external surface)					
<b>U - Total trasmittance (W/m<sup>2</sup>K)</b>					<b>0.422</b>

### Transmission loss weighted index

Evaluation according to  
ISO 717-1:

$$R_w = 60 \text{ dB (*)}$$



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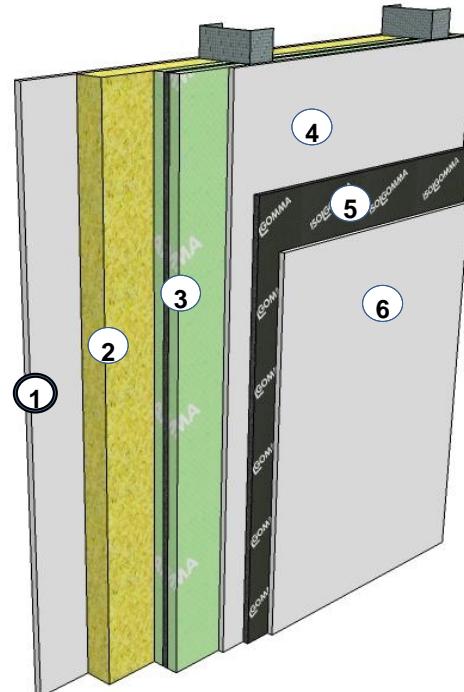
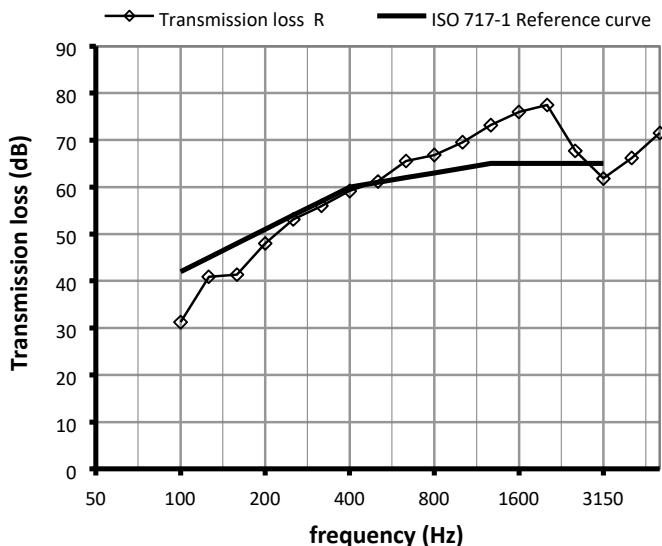
## Predictional calculation of wall insulation

Sienas konstrukcija					
n	Pielietotie materiāli	thickness	conductivity	density	resistance
		s (mm)	$\lambda$ (W/mK)	$\rho$ (kg/m <sup>3</sup> )	R (m <sup>2</sup> K/W)
1	Reģipsis	12.5	0.21	765	0.060
2	Akmensvate metāla karkasā (100 mm)	50	0.035	50	1.429
3	ISOLGOMMA - Trywall 48 metāla karkasā (100 mm)	48	0.047	-	1.021
4	Reģipsis	12.5	0.21	765	0.060
5	ISOLGOMMA - Mustwall 10	10	0.109	-	0.092
6	Reģipsis	12.5	0.21	765	0.060
		Total thickness	145.5		
					Superficial thermal resistance (internal surface) 0.130
					Superficial thermal resistance (external surface) 0.130
					<b>U - Total trasmittance (W/m<sup>2</sup>K) 0.336</b>

### Transmission loss weighted index

Evaluation according to  
ISO 717-1:

$$R_w = 61 \text{ dB (*)}$$



(\*)  $R_w$  is defined as the theoretical weighted index of the transmission loss: this index takes into account the characteristics of the adopted materials, composition and the chosen insulation products. It is not a prediction of the site transmission loss ( $R'w$ ), which takes into account the flanking transmission, the type of joints of the separating element, the volumes of emitting and receiving rooms.



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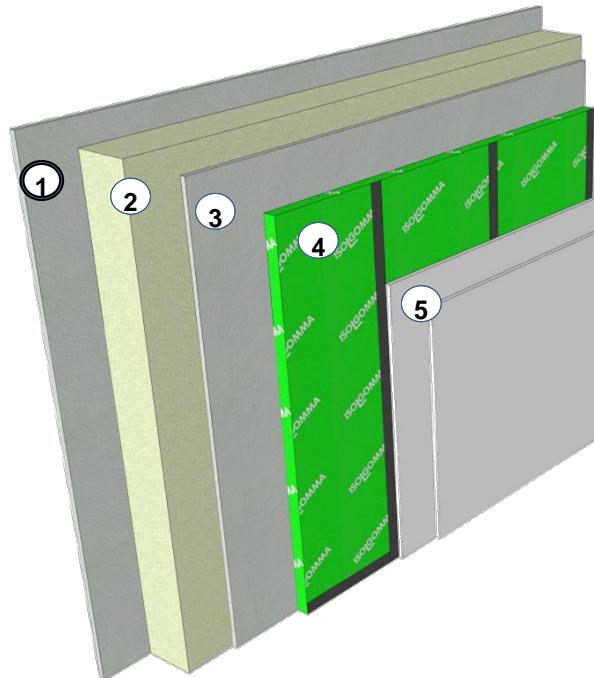
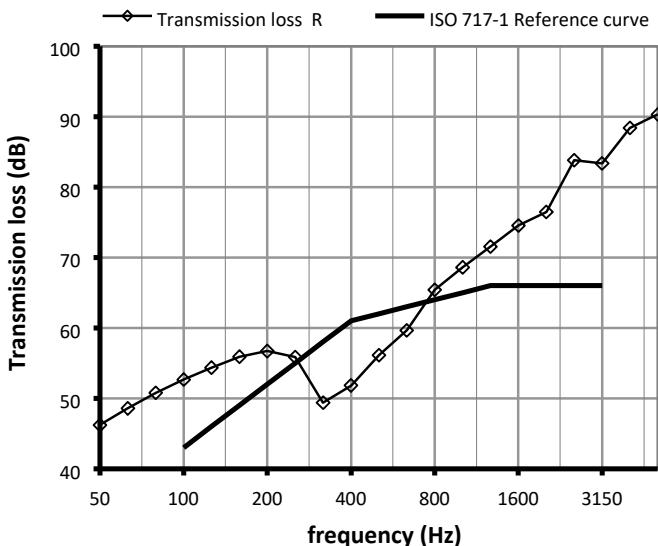
## Predictional calculation of wall insulation

Sienas konstrukcija					
n	Pielietotie materiāli	thickness	conductivity	density	resistance
		s (mm)	$\lambda$ (W/mK)	$\rho$ (kg/m <sup>3</sup> )	R (m <sup>2</sup> K/W)
1	Apmetums	20	1.4	2200	0.014
2	Fibo bloks	200	0.5	1000	0.400
3	Apmetums	20	1.4	2200	0.014
4	<b>Isolgomma - Trywall 48 in steel structure</b>	50	0.047	-	1.064
5	Reģūsis (2 kārtas)	25	0.21	750	0.119
6					
7					
8					
		Total thickness	315		
				Superficial thermal resistance (internal surface)	0.130
				Superficial thermal resistance (external surface)	0.130
				<b>U - Total trasmittance (W/m<sup>2</sup>K)</b>	<b>0.534</b>

### Transmission loss weighted index

Evaluation according to  
ISO 717-1:

$$R_w = 62 \text{ dB (*)}$$



(\*) R<sub>w</sub> is defined as the theoretical weighted index of the transmission loss: this index takes into account the characteristics of the adopted materials, the layers composition and the chosen insulation products. It is not a prediction of the site transmission loss (R'<sub>w</sub>), which takes into account the flanking transmission, the type of joints of the separating element, the volumes of emitting and receiving rooms.



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## Predictional calculation of wall insulation



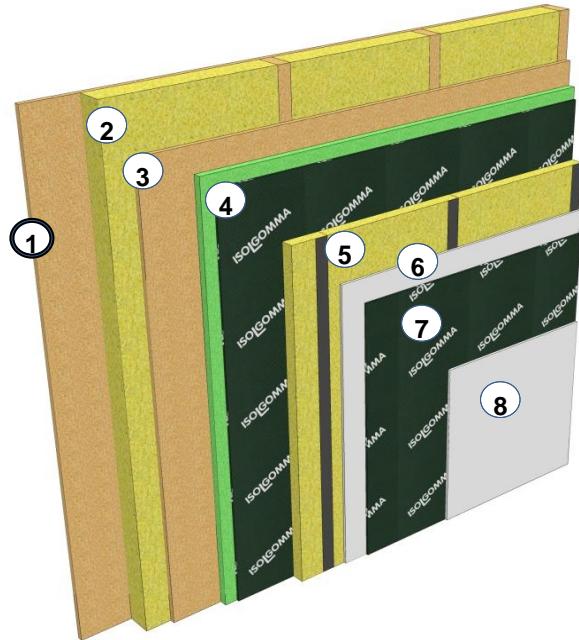
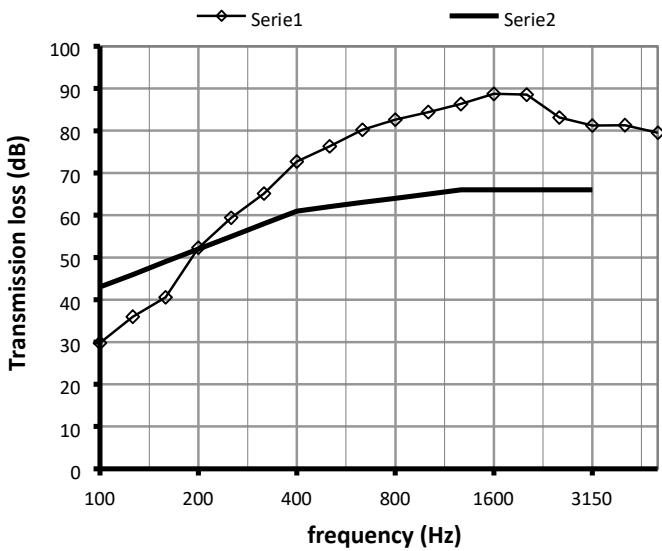
Sienas konstrukcija					
n	Pielietotie materiāli	thickness	conductivity	density	resistance
		s (mm)	$\lambda$ (W/mK)	$\rho$ (kg/m³)	R (m²K/W)
1	plywood	18	0.2	800	0.090
2	rockwool (low density) in wooden frame	100	0.04	30	2.500
3	plywood	18	0.2	800	0.090
4	Isolgomma - Biwall 40	40	0.047	-	0.851
5	rockwool in steel frame	50	0.04	60	1.250
6	gypsumboard	12.5	0.21	700	0.060
7	Isolgomma - Mustwall 10	10	0.109	800	0.092
8	gypsumboard	12.5	0.21	700	0.060
		Total thickness	261		
					Superficial thermal resistance (internal surface)
					0.130
					Superficial thermal resistance (external surface)
					0.130
					<b>U - Total trasmittance (W/m²K)</b>
					<b>0.190</b>

### Transmission loss weighted index

Evaluation according to

ISO 717-1:

$$R_w = 62 \text{ dB (*)}$$



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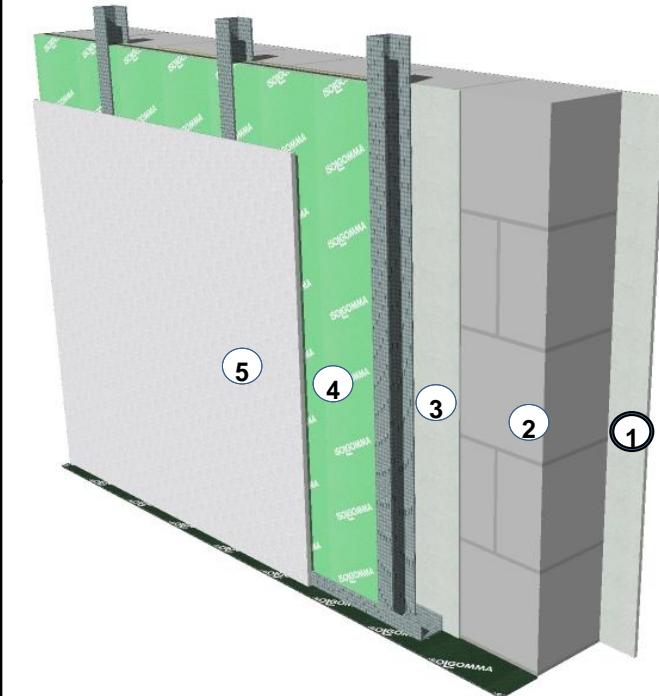
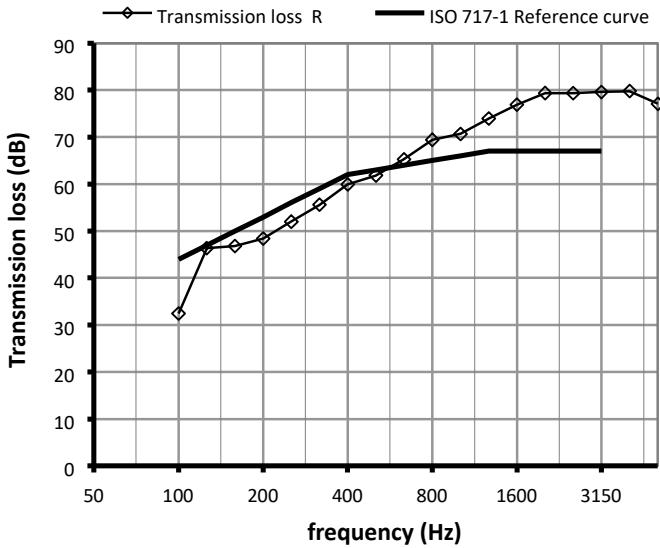
## Predictional calculation of wall insulation

Sienas konstrukcija					
n	Pielietotie materiāli	thickness	conductivity	density	resistance
		s (mm)	$\lambda$ (W/mK)	$\rho$ (kg/m <sup>3</sup> )	R (m <sup>2</sup> K/W)
1	Apmetums	8	1.000	1800	0.008
2	Fibo bloks	250	0.500	-	0.500
3	Apmetums	8	1.000	1800	0.008
4	<b>ISOLGOMMA - Tywall 48</b>	48	0.047	-	1.021
5	Reģiposis	12.5	0.210	765	0.060
		Total thickness	326.5		
				Superficial thermal resistance (internal surface)	0.130
				Superficial thermal resistance (external surface)	0.130
				<b>U - Total trasmittance (W/m<sup>2</sup>K)</b>	<b>0.539</b>

### Transmission loss weighted index

Evaluation according to  
ISO 717-1:

$$R_w = 63 \text{ dB (*)}$$



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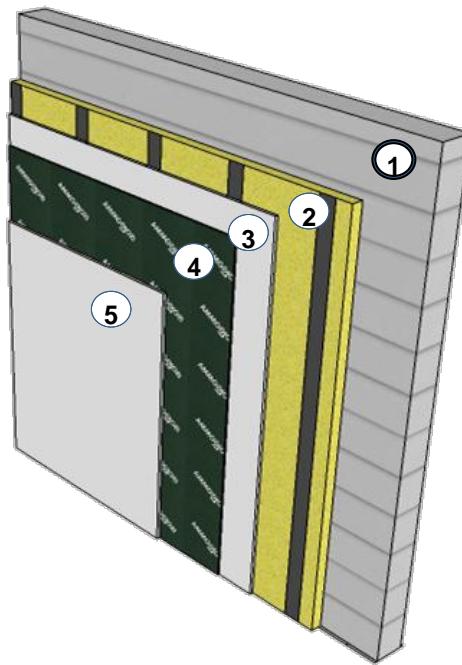
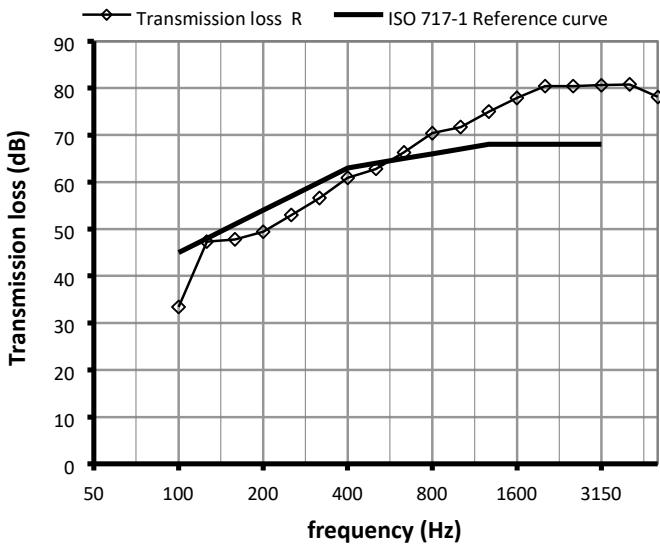
## Predictional calculation of wall insulation

Sienas konstrukcija					
n	Pielietotie materiāli	thickness	conductivity	density	resistance
		s (mm)	$\lambda$ (W/mK)	$\rho$ (kg/m <sup>3</sup> )	R (m <sup>2</sup> K/W)
1	Betona siena	120	2.3	2400	0.052
2	Isolgomma Mineral 50 - 50 metāla karkasā	50	0.035	50	1.429
3	Reģipsis	12.5	0.21	700	0.060
4	Isolgomma Mustwall 10	10	0.109	800	0.092
5	Reģipsis	12.5	0.21	700	0.060
6					
7					
8					
		Total thickness	205		
					Superficial thermal resistance (internal surface) 0.130
					Superficial thermal resistance (external surface) 0.130
					<b>U - Total trasmittance (W/m<sup>2</sup>K) 0.512</b>

### Transmission loss weighted index

Evaluation according to  
ISO 717-1:

$$R_w = 64 \text{ dB (*)}$$



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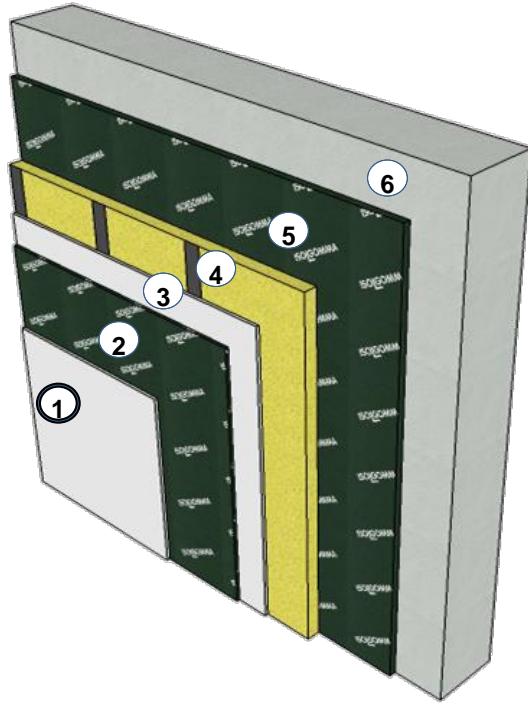
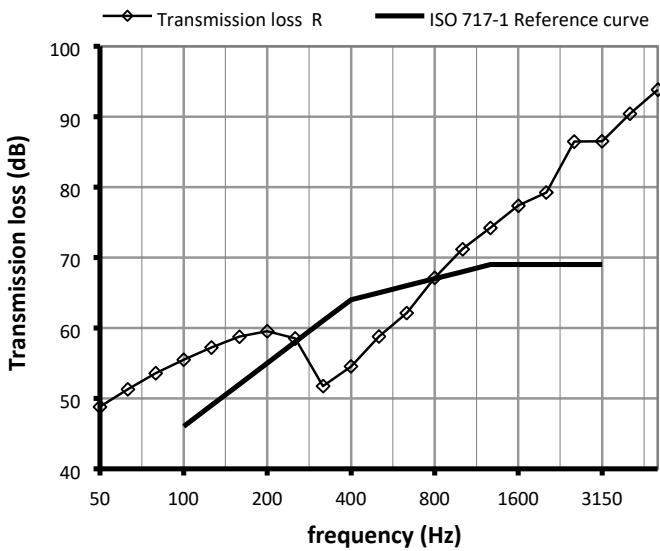
## Predictional calculation of wall insulation

Sienas konstrukcija					
n	Pielietotie materiāli	thickness	conductivity	density	resistance
		s (mm)	$\lambda$ (W/mK)	$\rho$ (kg/m <sup>3</sup> )	R (m <sup>2</sup> K/W)
1	Reģipsis	12.5	0.21	700	0.060
2	Isolgomma - Mustwall 10	10	0.099	800	0.101
3	Reģipsis	12.5	0.21	700	0.060
4	Akmensvate	50	0.047	70	1.064
5	Isolgomma - Mustwall 20	20	0.099	800	0.202
6	Fibo bloks	200	0.14	500	1.429
7					
8					
		Total thickness	305		
					Superficial thermal resistance (internal surface) 0.130
					Superficial thermal resistance (external surface) 0.130
					<b>U - Total trasmittance (W/m<sup>2</sup>K) 0.315</b>

### Transmission loss weighted index

Evaluation according to  
ISO 717-1:

$$R_w = 65 \text{ dB (*)}$$



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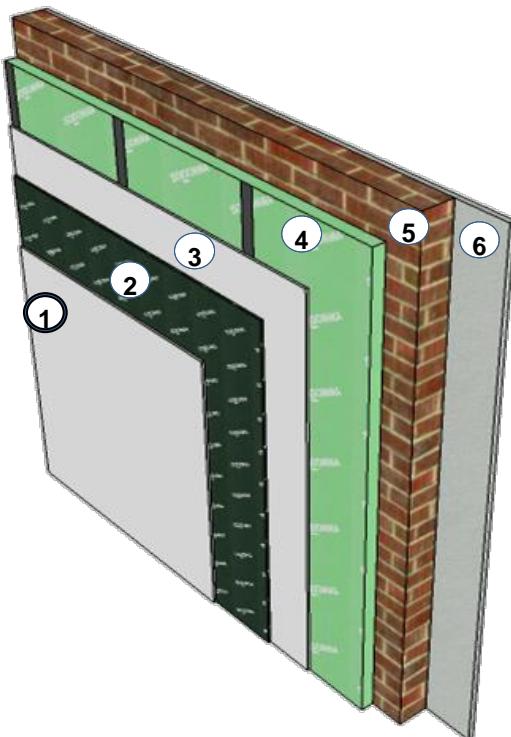
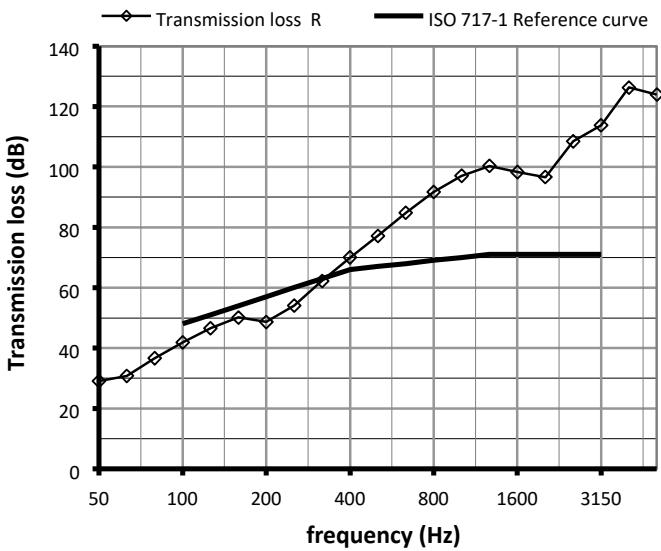
## Predictional calculation of wall insulation

Sienas konstrukcija					
n	Pielietotie materiāli	thickness	conductivity	density	resistance
		s (mm)	$\lambda$ (W/mK)	$\rho$ (kg/m <sup>3</sup> )	R (m <sup>2</sup> K/W)
1	Reģipsis	12.5	0.21	700	0.060
2	Isolgomma - Mustwall 20	20	0.099	800	0.202
3	Reģipsis	12.5	0.21	700	0.060
4	Isolgomma - Trywall 48M (in steel structure)	50	0.047	-	1.064
5	Kieģelu siena	120	0.7	1500	0.171
6	Apmetums	20	1.4	2200	0.014
7					
8					
		Total thickness	235		
					Superficial thermal resistance (internal surface) 0.130
					Superficial thermal resistance (external surface) 0.130
					<b>U - Total trasmittance (W/m<sup>2</sup>K) 0.546</b>

### Transmission loss weighted index

Evaluation according to  
ISO 717-1:

$$R_w = 67 \text{ dB (*)}$$



(\*)  $R_w$  is defined as the theoretical weighted index of the transmission loss: this index takes into account the characteristics of the adopted materials, the layers composition and the chosen insulation products. It is not a prediction of the site transmission loss ( $R'w$ ), which takes into account the flanking transmission, the type of joints of the separating element, the volumes of emitting and receiving rooms.



# TECHNICAL REPORT



## Predictional calculation of wall insulation

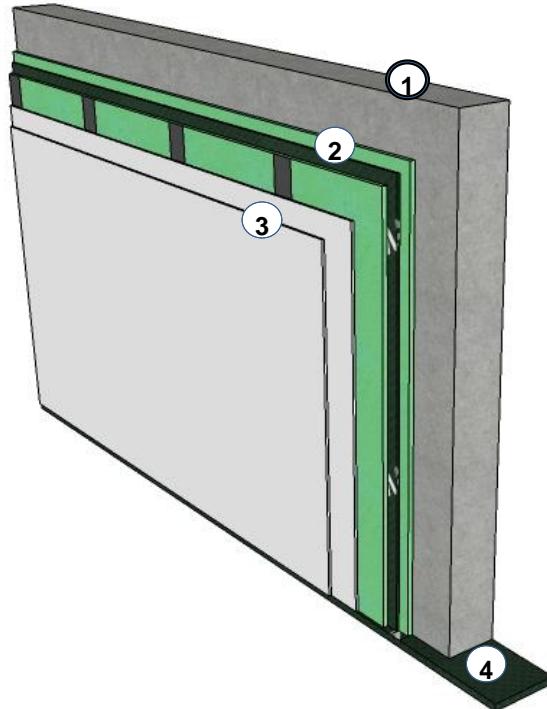
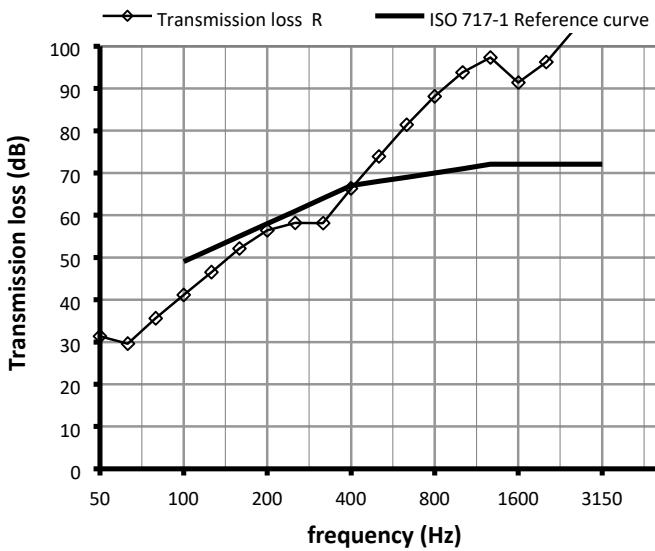
Sienas konstrukcija					
n	Pielietotie materiāli	thickness	conductivity	density	resistance
		s (mm)	$\lambda$ (W/mK)	$\rho$ (kg/m <sup>3</sup> )	R (m <sup>2</sup> K/W)
1	Betona siena	200	2.3	2400	0.087
2	Isolgomma Trywall48 ( 50 mm metāla karkasā)	50	0.047	-	1.064
3	Rēģipsis (2 kārtas)	25	0.067	700	0.373
4	Isolgomma - Stywall 33 AD zemsieni strīpa	6	-	-	-
5					
6					
7					
8					
		Total thickness	275		
Superficial thermal resistance (internal surface)					
Superficial thermal resistance (external surface)					
<b>U - Total trasmittance (W/m<sup>2</sup>K)</b>					<b>0.656</b>

### Transmission loss weighted index

Evaluation according to

ISO 717-1:

$$R_w = 68 \text{ dB (*)}$$



(\*)  $R_w$  is defined as the theoretical weighted index of the transmission loss: this index takes into account the characteristics of the adopted materials, the layers composition and the chosen insulation products. It is not a prediction of the site transmission loss ( $R'_w$ ), which takes into account the flanking transmission, the type of joints of the separating element, the volumes of emitting and receiving rooms.



# TECHNICAL REPORT



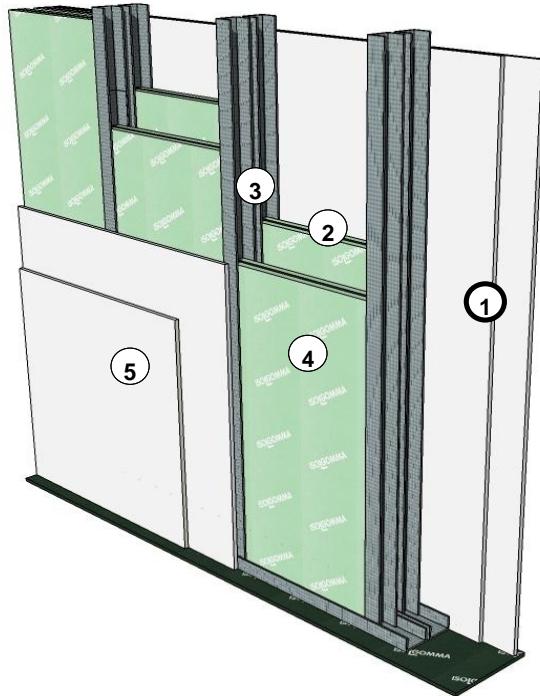
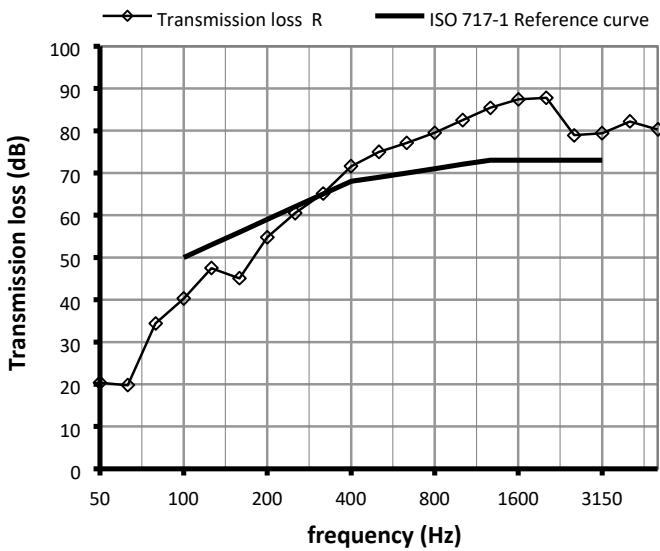
## Predictional calculation of wall insulation

Sienas konstrukcija					
n	Pielietotie materiāli	thickness	conductivity	density	resistance
		s (mm)	$\lambda$ (W/mK)	$\rho$ (kg/m <sup>3</sup> )	R (m <sup>2</sup> K/W)
1	Paaugstināta blīvuma reģipsis - 15 mm x 2	30	0.21	1000	0.143
2	<b>ISOLGOMMA - Trywall 48 (inside metal frame 50 mm)</b>	50	0.047	-	1.064
3	Gaisa šķirkāta	10	-	-	0.150
4	<b>ISOLGOMMA - Trywall 48 (inside metal frame 50 mm)</b>	50	0.047	-	1.064
5	Paaugstināta blīvuma reģipsis - 15 mm x 2	30	0.21	1000	0.143
		Total thickness	170		
					Superficial thermal resistance (internal surface) 0.130
					Superficial thermal resistance (external surface) 0.130
					<b>U - Total trasmittance (W/m<sup>2</sup>K) 0.354</b>

### Transmission loss weighted index

Evaluation according to  
ISO 717-1:

$$R_w = 69 \text{ dB (*)}$$



(\*)  $R_w$  is defined as the theoretical weighted index of the transmission loss: this index takes into account the characteristics of the adopted materials, the composition and the chosen insulation products. It is not a prediction of the site transmission loss ( $R'w$ ), which takes into account the flanking transmission, the type of joints of the separating element, the volumes of emitting and receiving rooms.



# TECHNICAL REPORT



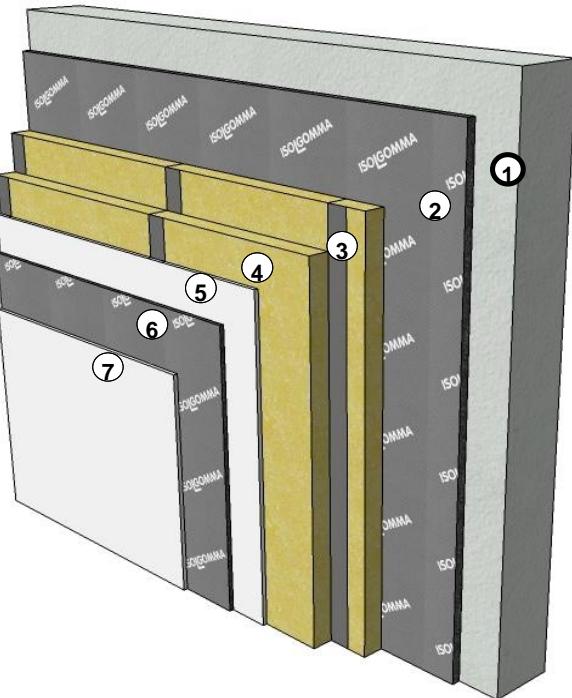
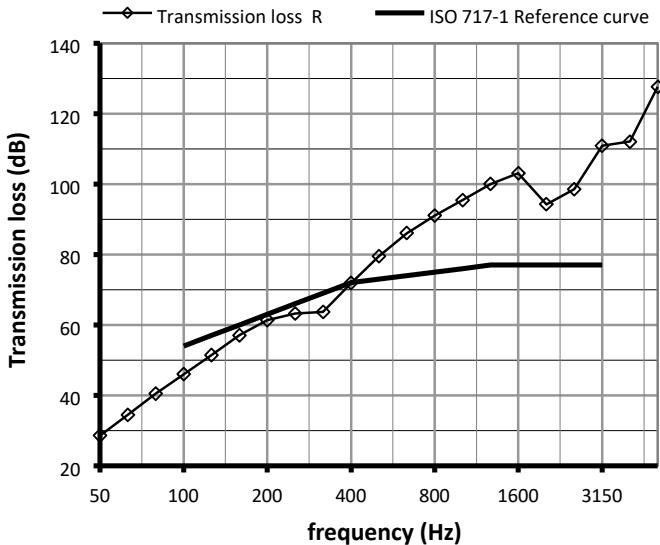
## Predictional calculation of wall insulation

Sienas konstrukcija					
n	Pielietotie materiāli	thickness	conductivity	density	resistance
		s (mm)	$\lambda$ (W/mK)	$\rho$ (kg/m <sup>3</sup> )	R (m <sup>2</sup> K/W)
1	Betona siena	135	2.300	2400	0.059
2	<b>Isolgomma - Mustwall 20</b>	20	0.120	800	0.167
3	Akmensvate metāla karkasā	50	0.035	70	1.429
4	Akmensvate metāla karkasā	50	0.035	70	1.429
5	Reģipsis	12.5	0.210	700	0.060
6	<b>Isolgomma - Mustwall 10</b>	10	0.120	800	0.083
7	Reģipsis	12.5	0.210	700	0.060
		Total thickness	290		
					Superficial thermal resistance (internal surface) 0.130
					Superficial thermal resistance (external surface) 0.130
					<b>U - Total trasmittance (W/m<sup>2</sup>K) 0.282</b>

### Transmission loss weighted index

Evaluation according to  
ISO 717-1:

$$R_w = 73 \text{ dB (*)}$$



(\*) R<sub>w</sub> is defined as the theoretical weighted index of the transmission loss: this index takes into account the characteristics of the adopted materials, the composition and the chosen insulation products. It is not a prediction of the site transmission loss (R'<sub>w</sub>), which takes into account the flanking transmission, the type of joints of the separating element, the volumes of emitting and receiving rooms.



# TECHNICAL REPORT



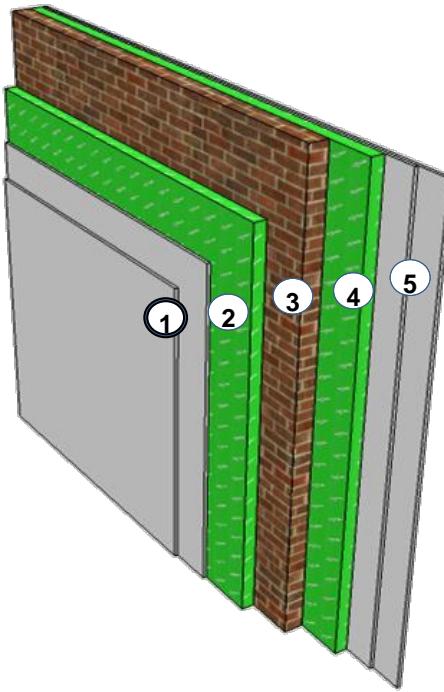
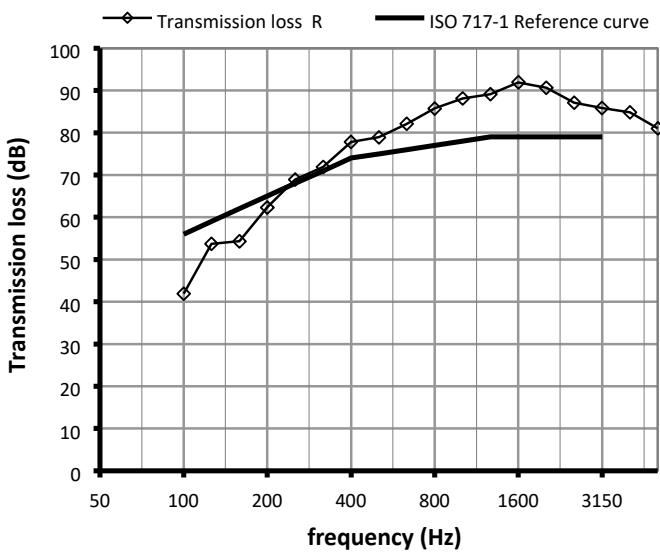
## Predictional calculation of wall insulation

Sienas konstrukcija					
n	Pielietotie materiāli	thickness	conductivity	density	resistance
		s (mm)	$\lambda$ (W/mK)	$\rho$ (kg/m <sup>3</sup> )	R (m <sup>2</sup> K/W)
1	Reģipsis 2 kārtas	25	0.21	700	0.119
2	Isolgomma - Trywall 48 in steel structure	50	0.047	-	1.064
3	Kieģelu siena	120	0.7	1600	0.171
4	Isolgomma - Trywall 48 in steel structure	50	0.047	-	1.064
5	Reģipsis 2 kārtas	25	0.21	700	0.119
6					
7					
8					
		Total thickness	270		
Superficial thermal resistance (internal surface)					
Superficial thermal resistance (external surface)					
<b>U - Total trasmittance (W/m<sup>2</sup>K)</b>					
<b>0.394</b>					

### Transmission loss weighted index

Evaluation according to  
ISO 717-1:

$$R_w = 75 \text{ dB (*)}$$



(\*) R<sub>w</sub> is defined as the theoretical weighted index of the transmission loss: this index takes into account the characteristics of the adopted materials, the layers composition and the chosen insulation products. It is not a prediction of the site transmission loss (R'<sub>w</sub>), which takes into account the flanking transmission, the type of joints of the separating element, the volumes of emitting and receiving rooms.



# TECHNICAL REPORT



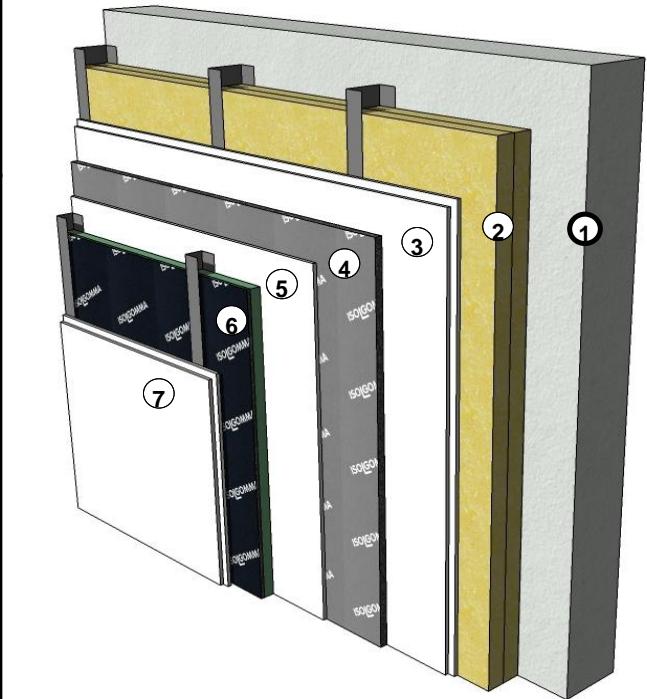
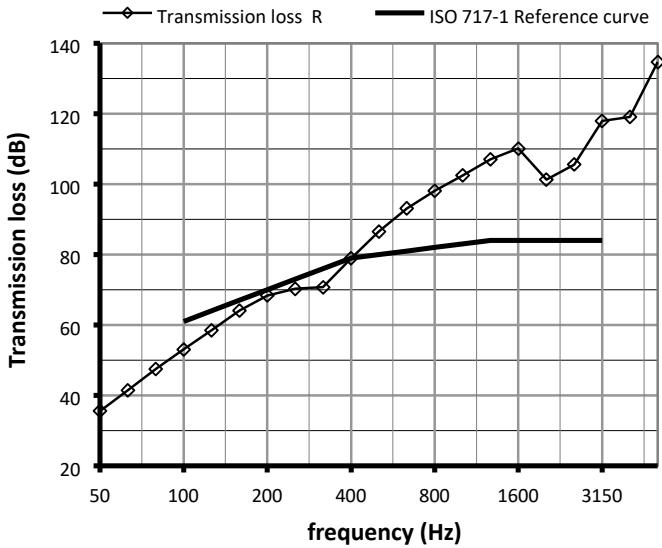
## Predictional calculation of wall insulation

Sienas konstrukcija					
n	Pielietotie materiāli	thickness	conductivity	density	resistance
		s (mm)	$\lambda$ (W/mK)	$\rho$ (kg/m <sup>3</sup> )	R (m <sup>2</sup> K/W)
1	Betona siena	90	2.300	2400	0.039
2	Akmensvate ( 100 mm metāla karkasā)	100	0.035	70	2.857
3	Reģipsis 2 kārtas	25	0.210	765	0.119
4	<b>Isolgomma - Mustwall 20</b>	20	0.109	-	0.183
5	Reģipsis	12.5	0.210	765	0.060
6	<b>Isolgomma - Biwall 40</b> (into 50 mm steel frame)	50	0.047	-	1.064
7	Reģipsis 2 kārtas	25	0.210	765	0.119
		Total thickness	322.5		
					Superficial thermal resistance (internal surface) 0.130
					Superficial thermal resistance (external surface) 0.130
					<b>U - Total trasmittance (W/m<sup>2</sup>K) 0.213</b>

### Transmission loss weighted index

Evaluation according to  
ISO 717-1:

$$R_w = 80 \text{ dB (*)}$$



(\*)  $R_w$  is defined as the theoretical weighted index of the transmission loss: this index takes into account the characteristics of the adopted materials, the composition and the chosen insulation products. It is not a prediction of the site transmission loss ( $R'w$ ), which takes into account the flanking transmission, the type of joints of the separating element, the volumes of emitting and receiving rooms.

