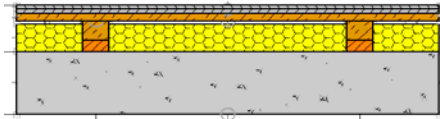
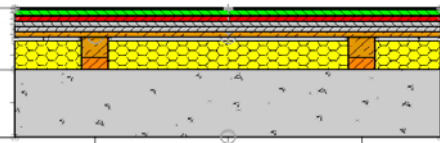
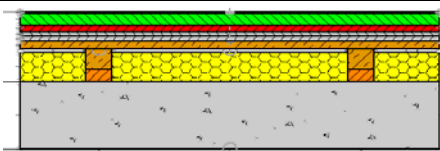
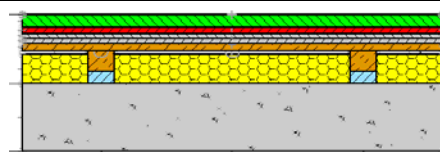
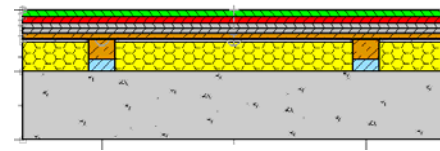
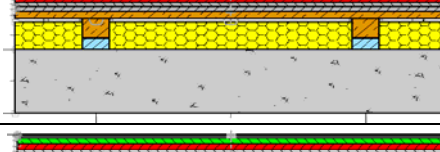
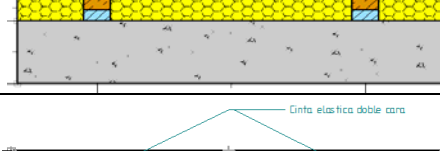
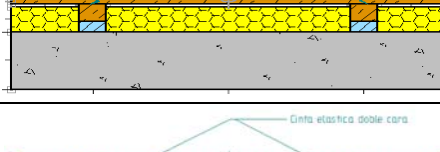
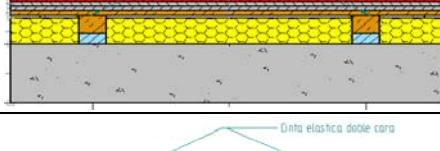
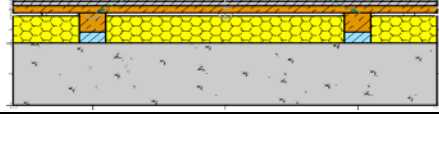


Comparison between different floor systems regarding the noise insulation due to the impact of a 50 Kg. dumbbell thrown from 0,5 m height.

Floor system	Description	Drawing	Measurement Leq(A) [dB]	Improvement ΔLeq(A) [dB]
Floor System 1	<ol style="list-style-type: none"> Reference 140 mm thickness concrete slab. SYLOMER SR18, 25 mm thickness bearing. (1500 mm x 50 mm strip) Wooden strip, 42 mm thickness. (gap between wooden strip 50 cm) Rock wool, thickness 60 mm. wooden board, thickness 16 mm with sonoc coating of 3 Kg/m². Two RIGIDUR plates, thickness 10 mm each plate. 		53,8 dB	43,4 dB
Floor System 2	<ol style="list-style-type: none"> Reference 140 mm thickness concrete slab. SYLOMER SR18, 25 mm thickness bearing. (1500 mm x 50 mm strip) Wooden strip, 42 mm thickness. (gap between wooden strip 50 cm) Rock wool, thickness 60 mm. wooden board, thickness 16 mm with sonoc coating of 3 Kg/m². Two RIGIDUR plates, thickness 10 mm each plate. RIGIDUR plate, thickness 13 mm with sonoc coating of 2 Kg/m². SYLOMER HD 30, thickness 13 mm. Synthetic blanket, thickness 2 mm (top coat). 		50,2 dB	47 dB
Floor System 3	<ol style="list-style-type: none"> Reference 140 mm thickness concrete slab. SYLOMER SR18, 25 mm thickness bearing. (1500 mm x 50 mm strip) Wooden strip, 42 mm thickness. (gap between wooden strip 50 cm) Rock wool, thickness 60 mm. wooden board, thickness 16 mm with sonoc coating of 3 Kg/m². Two RIGIDUR plates, thickness 10 mm each plate. RIGIDUR plate, thickness 13 mm with sonoc coating of 2 Kg/m². SYLOMER HD 30, thickness 25 mm. Synthetic blanket, thickness 2 mm (top coat). 		47,8 dB	49,4 dB
Floor System 4	<ol style="list-style-type: none"> Reference 140 mm thickness concrete slab. SYLOMER SR28, 25 mm thickness bearing. (1500 mm x 50 mm strip) Wooden strip, 42 mm thickness. (gap between wooden strip 50 cm) Rock wool, thickness 60 mm. wooden board, thickness 16 mm with sonoc coating of 3 Kg/m². Two RIGIDUR plates, thickness 10 mm each plate. RIGIDUR plate, thickness 13 mm with sonoc coating of 2 Kg/m². SYLOMER HD 30, thickness 25 mm. Synthetic blanket, thickness 2 mm (top coat). 		47,8 dB	49,4 dB
Floor System 5	<ol style="list-style-type: none"> Reference 140 mm thickness concrete slab. SYLOMER SR28, 25 mm thickness bearing. (1500 mm x 50 mm strip) Wooden strip, 42 mm thickness. (gap between wooden strip 50 cm) Rock wool, thickness 60 mm. wooden board, thickness 16 mm with sonoc coating of 3 Kg/m². Two RIGIDUR plates, thickness 10 mm each plate. RIGIDUR plate, thickness 13 mm with sonoc coating of 2 Kg/m². SYLOMER HD 30, thickness 13 mm. Synthetic blanket, thickness 2 mm (top coat). 		49,6 dB	47,6 dB
Floor System 6	<ol style="list-style-type: none"> Reference 140 mm thickness concrete slab. SYLOMER SR28, 25 mm thickness bearing. (1500 mm x 50 mm strip) Wooden strip, 42 mm thickness. (gap between wooden strip 50 cm) Rock wool, thickness 60 mm. wooden board, thickness 16 mm with sonoc coating of 3 Kg/m². Two RIGIDUR plates, thickness 10 mm each plate. RIGIDUR plate, thickness 13 mm with sonoc coating of 2 Kg/m². Rubber pad, thickness 5 mm. Synthetic blanket, thickness 2 mm (top coat). 		55,5 dB	41,7 dB
Floor System 7	<ol style="list-style-type: none"> Reference 140 mm thickness concrete slab. SYLOMER SR28, 25 mm thickness bearing. (1500 mm x 50 mm strip) Wooden strip, 42 mm thickness. (gap between wooden strip 50 cm) Rock wool, thickness 60 mm. wooden board, thickness 16 mm with sonoc coating of 3 Kg/m². Two RIGIDUR plates, thickness 10 mm each plate. RIGIDUR plate, thickness 13 mm with sonoc coating of 2 Kg/m². Rubber pad, thickness 5 mm + Sylomer HD 30, thickness 13 mm. Synthetic blanket, thickness 2 mm (top coat). 		50,3 dB	46,9 dB
Floor System 8	<ol style="list-style-type: none"> Reference 140 mm thickness concrete slab. SYLOMER SR28, 25 mm thickness bearing. (1500 mm x 50 mm strip) Wooden strip, 42 mm thickness. (gap between wooden strip 50 cm) Rock wool, thickness 60 mm. wooden board, thickness 16 mm with sonoc coating of 3 Kg/m². Two RIGIDUR plates, thickness 10 mm each plate. RIGIDUR plate, thickness 13 mm with sonoc coating of 2 Kg/m². Rubber pad, thickness 5 mm + Sylomer HD 30, thickness 13 mm. Synthetic blanket, thickness 2 mm (top coat). <p>Note: Elastic double-face adhesive tape between wooden strip and board.</p>		48,5 dB	48,7 dB
Floor System 9	<ol style="list-style-type: none"> Reference 140 mm thickness concrete slab. SYLOMER SR28, 25 mm thickness bearing. (1500 mm x 50 mm strip) Wooden strip, 42 mm thickness. (gap between wooden strip 50 cm) Rock wool, thickness 60 mm. wooden board, thickness 16 mm with sonoc coating of 3 Kg/m². Two RIGIDUR plates, thickness 10 mm each plate. RIGIDUR plate, thickness 13 mm with sonoc coating of 2 Kg/m². Rubber pad, thickness 5 mm + Sylomer HD 30, thickness 25 mm. Synthetic blanket, thickness 2 mm (top coat). <p>Note: Elastic double-face adhesive tape between wooden strip and board.</p>		47,1 dB	50,1 dB
Floor System 10	<ol style="list-style-type: none"> Reference 140 mm thickness concrete slab. SYLOMER SR28, 25 mm thickness bearing. (1500 mm x 50 mm strip) Wooden strip, 42 mm thickness. (gap between wooden strip 50 cm) Rock wool, thickness 60 mm. wooden board, thickness 16 mm with sonoc coating of 3 Kg/m². Two RIGIDUR plates, thickness 10 mm each plate. RIGIDUR plate, thickness 13 mm with sonoc coating of 2 Kg/m². Synthetic blanket, thickness 2 mm (top coat). <p>Note: Elastic double-face adhesive tape between wooden strip and board.</p>		52,9 dB	44,3 dB

Results comparison to the thrown of the dumbbell

		System 1	System 2	System 3	System 4	System 5	System 6	System 7	System 8	System 9	System 10	System 11
		Leq (dB)	Leq (dB)	Leq (dB)	Leq (dB)	Leq (dB)	Leq (dB)	Leq (dB)	Leq (dB)	Leq (dB)	Leq (dB)	Leq (dB)
RESULTS	<i>Frecuencia</i>											
	16 Hz	76,3	79,3	78,6	78,6	78,0	79,7	74,6	79,0	75,5	76,1	97,9
	20 Hz	73,9	71,8	75,4	75,4	73,9	71,5	77,7	73,5	77,4	76,1	95,1
	25 Hz	61,1	59,2	58,2	58,2	58,2	59,3	58,7	58,3	58,7	58,3	85,0
	31,5 Hz	61,2	62,4	60,4	60,4	62,1	61,9	60,6	61,3	59,4	60,9	80,2
	40 Hz	57,5	53,4	53,1	53,1	55,2	54,4	59,1	52,6	56,3	58,5	82,9
	50 Hz	59,0	59,7	61,6	61,6	59,4	60,8	57,9	61,0	59,7	59,8	91,2
	63 Hz	55,8	57,1	56,7	56,7	57,5	56,7	56,9	56,9	56,1	56,1	73,8
	80 Hz	54,7	53,8	54,7	54,7	53,5	54,9	54,1	53,9	54,2	55,6	82,9
	100 Hz	52,6	52,9	54,3	54,3	54,4	53,3	52,3	54,2	53,6	54,1	92,3
	125 Hz	52,0	51,6	52,4	52,4	51,6	52,4	51,2	51,8	50,8	52,0	92,9
	160 Hz	50,4	49,9	50,8	50,8	50,5	49,9	49,2	50,0	49,5	51,2	93,4
	200 Hz	48,6	47,9	48,9	48,9	48,8	48,1	47,3	48,2	47,1	49,1	92,9
	250 Hz	47,4	46,3	46,8	46,8	46,8	46,5	45,2	45,6	45,1	47,7	94,1
	315 Hz	45,2	44,5	44,0	44,0	44,9	45,1	43,7	43,5	42,4	45,8	95,2
	400 Hz	43,8	42,1	41,0	41,0	42,0	43,7	41,4	40,4	39,6	43,1	92,4
	500 Hz	41,1	39,6	37,6	37,6	39,1	41,7	38,6	37,0	36,4	40,2	93,7
	630 Hz	38,6	36,5	34,5	34,5	36,2	39,6	35,1	33,2	32,2	36,6	90,4
	800 Hz	35,9	33,1	30,2	30,2	33,0	36,9	30,6	29,0	27,4	31,9	89,2
	1000 Hz	32,3	28,9	26,2	26,2	29,3	33,4	25,2	25,7	25,6	28,8	85,3
	1250 Hz	27,0	25,5	24,2	24,2	25,1	28,6	23,1	24,0	22,7	27,0	80,0
	1600 Hz	22,4	22,4	22,6	22,6	22,1	22,8	22,0	20,8	20,5	24,3	72,4
	2000 Hz	22,3	22,2	18,2	18,2	20,6	22,5	19,4	17,7	17,1	21,7	67,9
	2500 Hz	20,3	21,2	16,9	16,9	17,6	21,2	15,3	15,2	14,9	19,0	63,8
	3150 Hz	16,9	19,1	14,1	14,1	14,2	18,7	13,9	12,9	12,1	17,4	60,0
	4000 Hz	15,8	17,5	12,8	12,8	12,7	16,8	12,1	10,9	10,6	15,6	55,6
5000 Hz	12,9	13,8	11,8	11,8	10,7	15,2	10,2	9,8	9,4	12,9	53,2	
6300 Hz	11,8	12,3	10,8	10,8	10,4	13,1	10,1	9,6	9,5	11,9	50,7	
8000 Hz	11,6	13,0	11,3	11,3	10,6	13,0	10,3	10,1	10,1	11,9	48,2	
10000 Hz	11,5	12,4	11,3	11,3	10,9	12,7	10,7	10,6	10,6	11,3	46,7	
12500 Hz	11,7	12,2	11,4	11,4	11,3	12,0	11,2	11,1	11,1	11,4	45,9	
Leq (A)	53,8	50,2	47,8	47,8	49,6	55,5	50,3	48,5	47,1	52,9	97,2	
Leq (C)	71,7	72,7	73,3	73,3	72,5	73,0	72,8	72,9	72,8	72,5	103,6	
	System 1	System 2	System 3	System 4	System 5	System 6	System 7	System 8	System 9	System 10	System 11	

Systems description:

-System 1 (dumbbell of 50 Kg):

1. Reference 140 mm thickness concrete slab.
2. SYLOMER SR18, 25 mm thickness bearing.
3. Wooden strip, 42 mm thickness. (gap between wooden strip 50 cm)
4. Rock wool, thickness 60 mm.
5. wooden board, thickness 16 mm with sonec coating of 3 Kg/m2.
6. Two RIGIDUR plates, thickness 10 mm each plate.

-System 2 (dumbbell of 50 Kg):

1. Reference 140 mm thickness concrete slab.
2. SYLOMER SR18, 25 mm thickness bearing.
3. Wooden strip, 42 mm thickness. (gap between wooden strip 50 cm)
4. Rock wool, thickness 60 mm.
5. wooden board, thickness 16 mm with sonec coating of 3 Kg/m2.
6. Two RIGIDUR plates, thickness 10 mm each plate.
7. RIGIDUR plate, thickness 13 mm with sonec coating of 2 Kg/m2.
8. SYLOMER HD 30, thickness 13 mm.
9. Synthetic blanket, thickness 2 mm (top coat).

-System 3 (dumbbell of 50 Kg):

1. Reference 140 mm thickness concrete slab.
2. SYLOMER SR18, 25 mm thickness bearing.
3. Wooden strip, 42 mm thickness. (gap between wooden strip 50 cm)
4. Rock wool, thickness 60 mm.
5. wooden board, thickness 16 mm with sonec coating of 3 Kg/m2.
6. Two RIGIDUR plates, thickness 10 mm each plate.
7. RIGIDUR plate, thickness 13 mm with sonec coating of 2 Kg/m2.
8. SYLOMER HD 30, thickness 25 mm.
9. Synthetic blanket, thickness 2 mm (top coat).

-System 4 (dumbbell of 50 Kg):

1. Reference 140 mm thickness concrete slab.
2. SYLOMER SR28, 25 mm thickness bearing.
3. Wooden strip, 42 mm thickness. (gap between wooden strip 50 cm)
4. Rock wool, thickness 60 mm.
5. wooden board, thickness 16 mm with sonec coating of 3 Kg/m2.
6. Two RIGIDUR plates, thickness 10 mm each plate.
7. RIGIDUR plate, thickness 13 mm with sonec coating of 2 Kg/m2.
8. SYLOMER HD 30, thickness 25 mm.
9. Synthetic blanket, thickness 2 mm (top coat).

-System 5 (dumbbell of 50 Kg):

1. Reference 140 mm thickness concrete slab.
2. SYLOMER SR28, 25 mm thickness bearing.
3. Wooden strip, 42 mm thickness. (gap between wooden strip 50 cm)
4. Rock wool, thickness 60 mm.
5. wooden board, thickness 16 mm with sonec coating of 3 Kg/m2.
6. Two RIGIDUR plates, thickness 10 mm each plate.
7. RIGIDUR plate, thickness 13 mm with sonec coating of 2 Kg/m2.
8. SYLOMER HD 30, thickness 13 mm.
9. Synthetic blanket, thickness 2 mm (top coat).

-System 9 (dumbbell of 50 Kg):

1. Reference 140 mm thickness concrete slab.
2. SYLOMER SR28, 25 mm thickness bearing.
3. Wooden strip, 42 mm thickness. (gap between wooden strip 50 cm)
4. Rock wool, thickness 60 mm.
5. wooden board, thickness 16 mm with sonec coating of 3 Kg/m2.
6. Two RIGIDUR plates, thickness 10 mm each plate.
7. RIGIDUR plate, thickness 13 mm with sonec coating of 2 Kg/m2.
8. Rubber pad, thickness 5 mm + Sylomer HD 30, thickness 25 mm.
9. Synthetic blanket, thickness 2 mm (top coat).

Note: Elastic double-face adhesive tape between wooden strip and board.

-System 10 (dumbbell of 50 Kg):

1. Reference 140 mm thickness concrete slab.
2. SYLOMER SR28, 25 mm thickness bearing.
3. Wooden strip, 42 mm thickness. (gap between wooden strip 50 cm)
4. Rock wool, thickness 60 mm.
5. wooden board, thickness 16 mm with sonec coating of 3 Kg/m2.
6. Two RIGIDUR plates, thickness 10 mm each plate.
7. RIGIDUR plate, thickness 13 mm with sonec coating of 2 Kg/m2.
8. Synthetic blanket, thickness 2 mm (top coat).

Note: Elastic double-face adhesive tape between wooden strip and board.

-System 11 (dumbbell of 50 Kg):

1. Reference 140 mm thickness concrete slab.

-System 6 (dumbbell of 50 Kg):

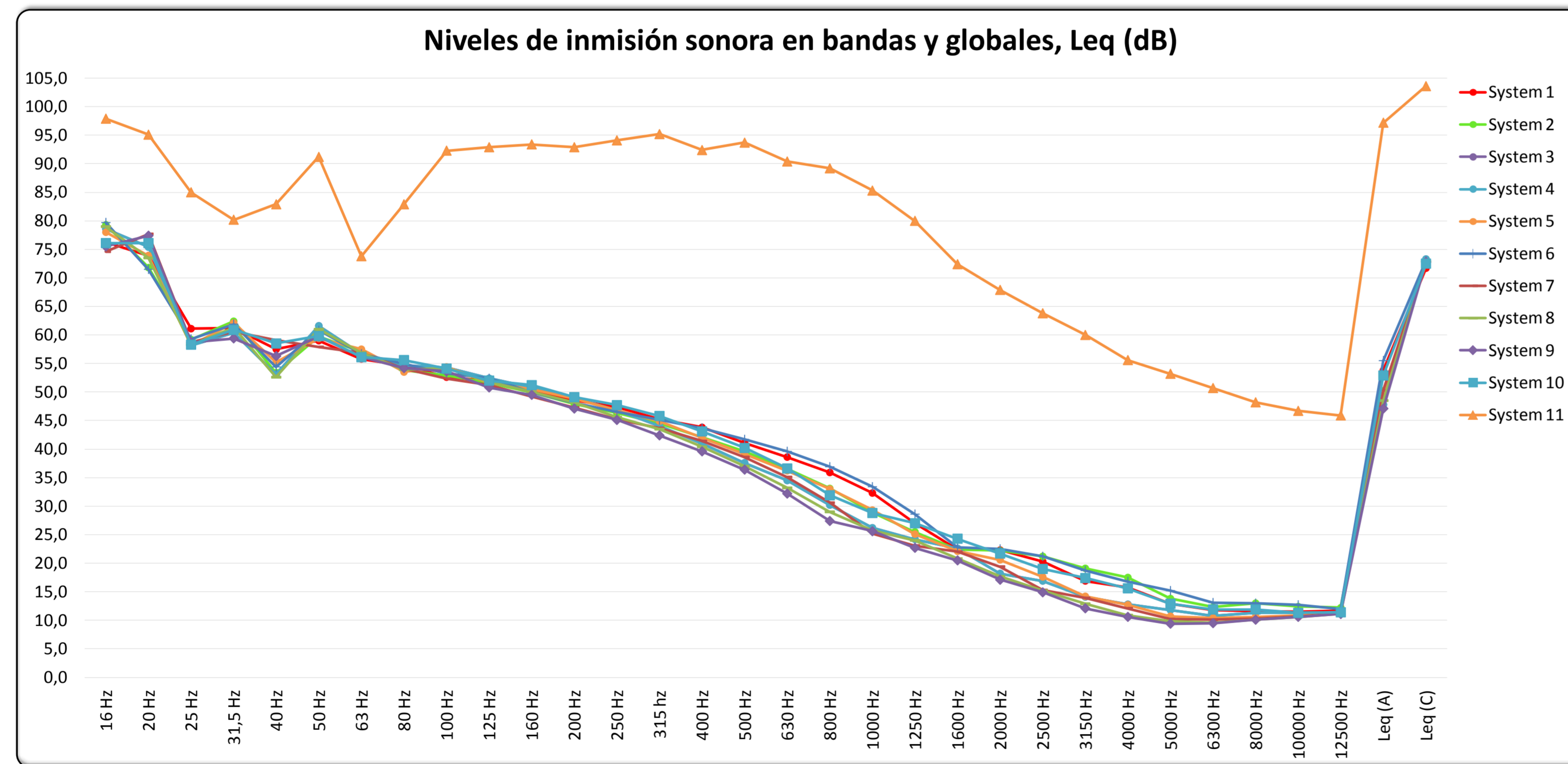
1. Reference 140 mm thickness concrete slab.
2. SYLOMER SR28, 25 mm thickness bearing.
3. Wooden strip, 42 mm thickness. (gap between wooden strip 50 cm)
4. Rock wool, thickness 60 mm.
5. wooden board, thickness 16 mm with sonec coating of 3 Kg/m2.
6. Two RIGIDUR plates, thickness 10 mm each plate.
7. RIGIDUR plate, thickness 13 mm with sonec coating of 2 Kg/m2.
8. Rubber pad, thickness 5 mm.
9. Synthetic blanket, thickness 2 mm (top coat).

-System 7 (dumbbell of 50 Kg):

1. Reference 140 mm thickness concrete slab.
2. SYLOMER SR28, 25 mm thickness bearing.
3. Wooden strip, 42 mm thickness. (gap between wooden strip 50 cm)
4. Rock wool, thickness 60 mm.
5. wooden board, thickness 16 mm with sonec coating of 3 Kg/m2.
6. Two RIGIDUR plates, thickness 10 mm each plate.
7. RIGIDUR plate, thickness 13 mm with sonec coating of 2 Kg/m2.
8. Rubber pad, thickness 5 mm + Sylomer HD 30, thickness 13 mm.
9. Synthetic blanket, thickness 2 mm (top coat).

-System 8 (dumbbell of 50 Kg):

1. Reference 140 mm thickness concrete slab.
2. SYLOMER SR28, 25 mm thickness bearing.
3. Wooden strip, 42 mm thickness. (gap between wooden strip 50 cm)
4. Rock wool, thickness 60 mm.
5. wooden board, thickness 16 mm with sonec coating of 3 Kg/m2.
6. Two RIGIDUR plates, thickness 10 mm each plate.
7. RIGIDUR plate, thickness 13 mm with sonec coating of 2 Kg/m2.
8. Rubber pad, thickness 5 mm + Sylomer HD 30, thickness 13 mm.
9. Synthetic blanket, thickness 2 mm (top coat).



- Main conclusions:

- The main conclusion is that the elastic bearing Sylomer in combination with other materials reduces the noise level around the 50% of the reference noise level, this means an improvement up to 40 dBs in every studied system.
- The element which provides the second better improvement in the noise insulation is the Sylomer HD 30 coating, due to the high damping, part of the impact energy is disipated and so that the transmitted noise is decreased. In the test carried out the Sylomer HD 30 in 12,5 mm thickness provides around a 3 dBs improvement in the noise level and the 25 mm thickness provides around 6 dBs improvement.
- The rubber pad provides little improvement and it is almost invaluable in the global noise value.
- The elastic double-face adhesive tape between wooden strip and board provides a improvement of around 0,5 dBs.

Comparativo resultados lanzamiento de mancuerna

RESULTADOS												
	Sistema 1 Leq (dB)	Sistema 2 Leq (dB)	Sistema 3 Leq (dB)	Sistema 4 Leq (dB)	Sistema 5 Leq (dB)	Sistema 6 Leq (dB)	Sistema 7 Leq (dB)	Sistema 8 Leq (dB)	Sistema 9 Leq (dB)	Sistema 10 Leq (dB)	Sistema 11 Leq (dB)	Sistema 12 Leq (dB)
Frecuencia												
16 Hz	76,3	79,3	79,3	78,6	78,6	78,0	79,7	74,6	79,0	75,5	76,1	97,9
20 Hz	73,9	70,4	71,8	75,4	75,4	73,9	71,5	77,7	73,5	77,4	76,1	95,1
25 Hz	61,1	56,0	59,2	58,2	58,2	58,2	59,3	58,7	58,3	58,7	58,3	80,0
31,5 Hz	62,1	56,1	62,4	60,4	60,4	62,1	61,9	60,6	61,3	59,4	60,9	80,2
40 Hz	57,5	50,1	53,4	53,1	53,1	55,2	54,4	59,1	52,6	56,3	58,5	82,9
50 Hz	59,0	60,2	59,7	61,6	61,6	59,4	60,8	57,9	61,0	59,7	59,8	91,2
63 Hz	55,8	48,0	57,1	56,7	56,7	57,5	56,7	56,9	56,9	56,1	56,1	73,8
80 Hz	54,7	51,6	53,8	54,7	54,7	53,5	54,9	54,1	53,9	54,2	55,6	82,9
100 Hz	52,6	47,5	52,9	54,3	54,3	54,4	53,3	52,3	54,2	53,6	54,1	92,3
125 Hz	52,0	47,1	51,6	52,4	52,4	51,6	52,4	51,2	51,8	50,8	52,0	92,9
160 Hz	50,4	44,0	49,9	50,8	50,8	50,5	49,9	49,2	50,0	49,5	51,2	93,4
200 Hz	48,6	40,4	47,9	48,9	48,9	48,8	48,1	47,3	48,2	47,1	49,1	92,9
250 Hz	47,4	39,5	46,3	46,8	46,8	46,8	46,5	45,2	45,6	45,1	47,7	94,1
315 Hz	45,2	35,9	44,5	44,0	44,0	44,9	45,1	43,7	43,5	42,4	45,8	95,2
400 Hz	43,8	31,5	42,1	41,0	41,0	42,0	43,7	41,4	40,4	39,6	43,1	92,4
500 Hz	41,1	29,1	39,6	37,6	37,6	39,1	41,7	38,6	37,0	36,4	40,2	93,7
630 Hz	38,6	25,8	36,5	34,5	34,5	36,2	39,6	35,1	33,2	32,2	36,6	90,4
800 Hz	35,9	23,7	33,1	30,2	30,2	33,0	36,9	30,6	29,0	27,4	31,9	89,2
1000 Hz	32,3	18,8	28,9	26,2	26,2	29,3	33,4	25,2	25,7	25,6	28,8	85,3
1250 Hz	27,0	16,7	25,5	24,2	24,2	25,1	28,6	23,1	24,0	22,7	27,0	80,0
1600 Hz	22,4	12,9	22,4	22,6	22,6	22,1	22,8	22,0	20,8	20,5	24,3	72,4
2000 Hz	22,3	10,6	22,2	18,2	18,2	20,6	22,5	19,4	17,7	17,1	21,7	67,9
2500 Hz	20,3	9,0	21,2	16,9	16,9	17,6	21,2	15,3	15,2	14,9	19,0	63,8
3150 Hz	16,9	9,9	19,1	14,1	14,1	14,2	18,7	13,9	12,9	12,1	17,4	60,0
4000 Hz	15,8	7,1	17,5	12,8	12,8	12,7	16,8	12,1	10,9	10,6	15,6	55,6
5000 Hz	12,9	7,6	13,8	11,8	11,8	10,7	15,2	10,2	9,8	9,4	12,9	53,2
6300 Hz	11,8	8,5	12,3	10,8	10,8	10,4	13,1	10,1	9,6	9,5	11,9	50,7
8000 Hz	11,6	9,6	13,0	11,3	11,3	10,6	13,0	10,3	10,1	10,1	11,9	48,2
10000 Hz	11,5	10,4	12,4	11,3	11,3	10,9	12,7	10,7	10,6	10,6	11,3	46,7
12500 Hz	11,7	11,1	12,2	11,4	11,4	11,3	12,0	11,2	11,1	11,1	11,4	45,9
Leq (A)	53,8	41,2	50,2	47,8	47,8	49,6	55,5	50,3	48,5	47,1	52,9	97,2
Leq (C)	71,7	70,9	72,7	73,3	73,3	72,5	73,0	72,8	72,9	72,8	72,5	103,6
	Sistema 1	Sistema 2	Sistema 3	Sistema 4	Sistema 5	Sistema 6	Sistema 7	Sistema 8	Sistema 9	Sistema 10	Sistema 11	Sistema 12

Definición de los sistemas:

- Sistema 1 (mancuerna de 50 Kg):

1. Losa de referencia de 140 mm.
2. Lámina antimpactos SYLOMER de 25 mm de espesor (naranja).
3. Rastrel de madera de 42 mm de espesor. (separación entre rastreles de 50 cm)
4. Lana mineral de 60 mm entre rastreles.
5. Tablero DM de 16 mm con sonec de 3 Kg/m².
6. Dos placas RIGIDUR de 10 mm.

- Sistema 2 (mancuerna de 30 Kg):

1. Losa de referencia de 140 mm.
2. Lámina antimpactos SYLOMER de 25 mm de espesor (naranja).
3. Rastrel de madera de 42 mm de espesor. (separación entre rastreles de 50 cm)
4. Lana mineral de 60 mm entre rastreles.
5. Tablero DM de 16 mm con sonec de 3 Kg/m².
6. Dos placas RIGIDUR de 10 mm.
7. Placa de RIGIDUR de 13 mm con sonec de 2 Kg/m².

- Sistema 3 (mancuerna de 50 Kg):

1. Losa de referencia de 140 mm.
2. Lámina antimpactos SYLOMER de 25 mm de espesor (naranja).
3. Rastrel de madera de 42 mm de espesor. (separación entre rastreles de 50 cm)
4. Lana mineral de 60 mm entre rastreles.
5. Tablero DM de 16 mm con sonec de 3 Kg/m².
6. Dos placas RIGIDUR de 10 mm.
7. Placa de RIGIDUR de 13 mm con sonec de 2 Kg/m².
8. SYLOMER HD de 13 mm.
9. Tejido sintético de 2 mm (acabado).

- Sistema 4 (mancuerna de 50 Kg):

1. Losa de referencia de 140 mm.
2. Lámina antimpactos SYLOMER de 25 mm de espesor (naranja).
3. Rastrel de madera de 42 mm de espesor. (separación entre rastreles de 50 cm)
4. Lana mineral de 60 mm entre rastreles.
5. Tablero DM de 16 mm con sonec de 3 Kg/m².
6. Dos placas RIGIDUR de 10 mm.
7. Placa de RIGIDUR de 13 mm con sonec de 2 Kg/m².
8. SYLOMER HD de 25 mm.
9. Tejido sintético de 2 mm (acabado).

- Sistema 5 (mancuerna de 50 Kg):

1. Losa de referencia de 140 mm.
2. Lámina antimpactos SYLOMER de 25 mm de espesor (azul).
3. Rastrel de madera de 42 mm de espesor. (separación entre rastreles de 50 cm)
4. Lana mineral de 60 mm entre rastreles.
5. Tablero DM de 16 mm con sonec de 3 Kg/m².
7. Placa de RIGIDUR de 13 mm con sonec de 2 Kg/m².
8. SYLOMER HD de 25 mm.
9. Tejido sintético de 2 mm (acabado).

- Sistema 6 (mancuerna de 50 Kg):

1. Losa de referencia de 140 mm.
2. Lámina antimpactos SYLOMER de 25 mm de espesor (azul).
3. Rastrel de madera de 42 mm de espesor. (separación entre rastreles de 50 cm)
4. Lana mineral de 60 mm entre rastreles.
5. Tablero DM de 16 mm con sonec de 3 Kg/m².
6. Dos placas RIGIDUR de 10 mm.
7. Placa de RIGIDUR de 13 mm con sonec de 2 Kg/m².
8. SYLOMER HD de 13 mm.
9. Tejido sintético de 2 mm (acabado).

- Sistema 7 (mancuerna de 50 Kg):

1. Losa de referencia de 140 mm.
2. Lámina antimpactos SYLOMER de 25 mm de espesor (azul).
3. Rastrel de madera de 42 mm de espesor. (separación entre rastreles de 50 cm)
4. Lana mineral de 60 mm entre rastreles.
5. Tablero DM de 16 mm con sonec de 3 Kg/m².
6. Dos placas RIGIDUR de 10 mm.
7. Placa de RIGIDUR de 13 mm con sonec de 2 Kg/m².
8. Caucho de 5 mm.
9. Tejido sintético de 2 mm (acabado).

- Sistema 8 (mancuerna de 50 Kg):

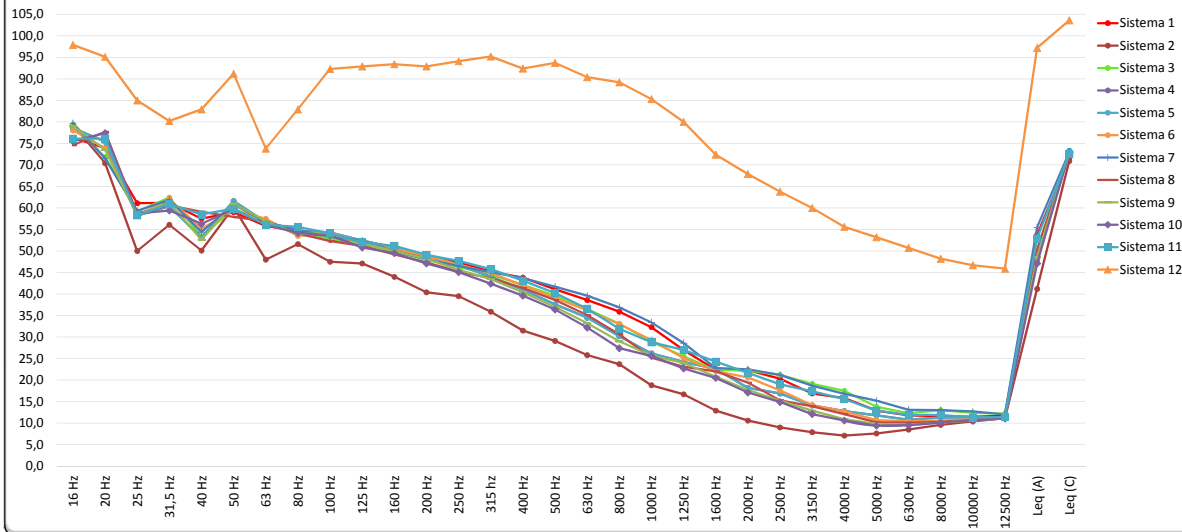
1. Losa de referencia de 140 mm.
2. Lámina antimpactos SYLOMER de 25 mm de espesor (azul).
3. Rastrel de madera de 42 mm de espesor. (separación entre rastreles de 50 cm)
4. Lana mineral de 60 mm entre rastreles.
5. Tablero DM de 16 mm con sonec de 3 Kg/m².
6. Dos placas RIGIDUR de 10 mm.
7. Placa de RIGIDUR de 13 mm con sonec de 2 Kg/m².
8. Caucho de 5 mm + SYLOMER de 13 mm.
9. Tejido sintético de 2 mm (acabado).

- Sistema 9 (mancuerna de 50 Kg):

1. Losa de referencia de 140 mm.
2. Lámina antimpactos SYLOMER de 25 mm de espesor (azul).
3. Rastrel de madera de 42 mm de espesor. (separación entre rastreles de 50 cm)
4. Lana mineral de 60 mm entre rastreles.
5. Tablero DM de 16 mm con sonec de 3 Kg/m².
6. Dos placas RIGIDUR de 10 mm.
7. Placa de RIGIDUR de 13 mm con sonec de 2 Kg/m².
8. Caucho de 5 mm + SYLOMER de 13 mm.
9. Tejido sintético de 2 mm (acabado).

Nota: Interposición entre rastrel de madera y tablero DM de cinta elástica de doble cara.

Niveles de inmisión sonora en bandas y globales, Leq (dB)



- Sistema 10 (mancuerna de 50 Kg):

1. Losa de referencia de 140 mm.
2. Lámina antimpactos SYLOMER de 25 mm de espesor (azul).
3. Rastrel de madera de 42 mm de espesor. (separación entre rastreles de 50 cm)
4. Lana mineral de 60 mm entre rastreles.
5. Tablero DM de 16 mm con sonec de 3 Kg/m².
6. Dos placas RIGIDUR de 10 mm.
7. Placa de RIGIDUR de 13 mm con sonec de 2 Kg/m².
8. Caucho de 5 mm + SYLOMER de 25 mm.
9. Tejido sintético de 2 mm (acabado).

Nota: Interposición entre rastrel de madera y tablero DM de cinta elástica de doble cara.

- Sistema 11 (mancuerna de 50 Kg):

1. Losa de referencia de 140 mm.
2. Lámina antimpactos SYLOMER de 25 mm de espesor (azul).
3. Rastrel de madera de 42 mm de espesor. (separación entre rastreles de 50 cm)
4. Lana mineral de 60 mm entre rastreles.
5. Tablero DM de 16 mm con sonec de 3 Kg/m².
6. Dos placas RIGIDUR de 10 mm.
7. Placa de RIGIDUR de 13 mm con sonec de 2 Kg/m².
8. Tejido sintético de 2 mm (acabado).

Nota: Interposición entre rastrel de madera y tablero DM de cinta elástica de doble cara.

- Sistema 12 (mancuerna de 50 Kg):

1. Losa de referencia de 140 mm.