



## MuteMat® Systems Performance Data

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<b>Timber Floor</b>	02 - 06
<b>Concrete Floor</b>	07 - 11
<b>Underscreed</b>	12 - 14

# MuteMat® 2 Performance Data

## Timber Floor | MuteMat® 2

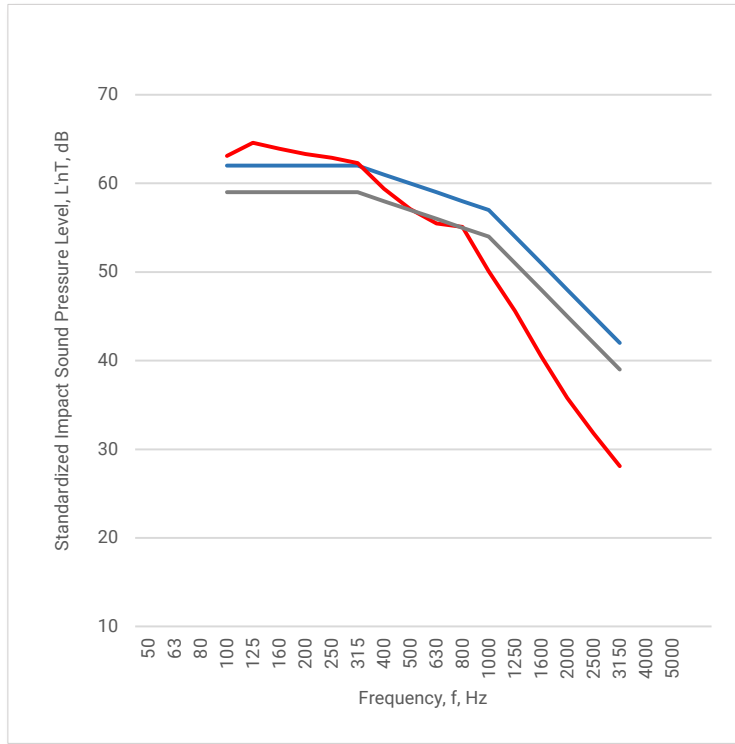
### Untreated Floor Impact Results

Weighted Normalized Impact Sound Pressure Level according to ISO 717-2  
Receiving Room Volume: >750 m³

### Floor Build-Up:

22mm T&G Chipboard	(15 kg/m²)
300mm x 50mm Joists (400mm Centres)	
100mm Mineral Wool   45 kg/m³	(4.5 kg/m²)
19mm SoundPlank	(15 kg/m²)
15mm Acoustic Plasterboard	(12.5 kg/m²)

Hz	1/3 Octave
50	-
63	-
80	-
100	63.1
125	64.6
160	63.9
200	63.3
250	62.9
315	62.3
400	59.4
500	57.1
630	55.5
800	55.1
1000	50.1
1250	45.6
1600	40.5
2000	35.8
2500	31.8
3150	28.1
4000	-
5000	-



**L<sub>nT,w</sub> (Ci) = 57 (0) dB**

Rating in accordance to ISO 717-2

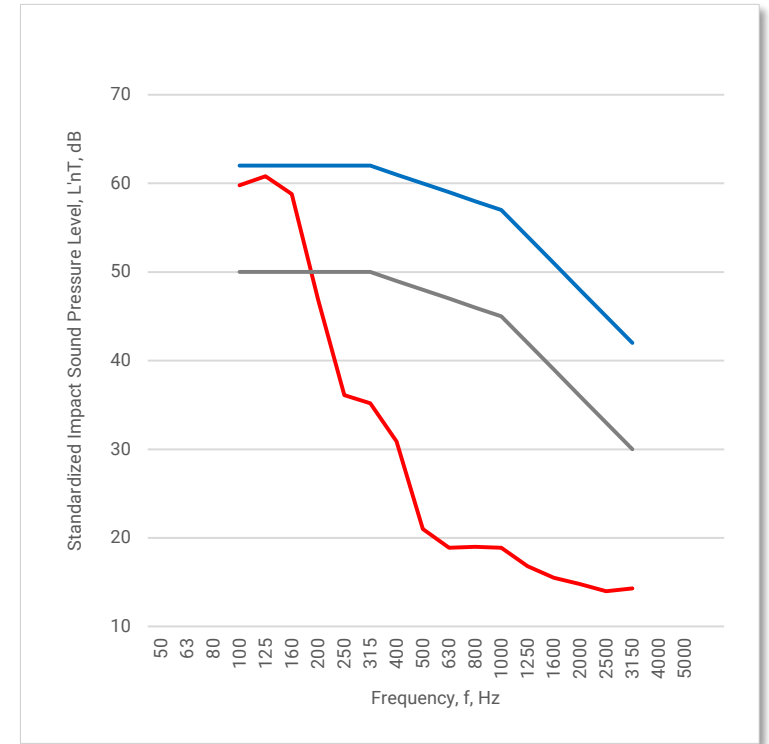
### Treated Floor Impact Results

Weighted Normalized Impact Sound Pressure Level according to ISO 717-2  
Receiving Room Volume: >750 m³

### Additional Floor Build-Up:

MuteMat® 2 (Loose Laid)	(7.5 kg/m²)
Original Floor Make-Up	(47 kg/m²)

Hz	1/3 Octave
50	-
63	-
80	-
100	59.8
125	60.8
160	58.8
200	46.9
250	36.1
315	35.2
400	30.9
500	21.0
630	18.9
800	19.0
1000	18.9
1250	16.8
1600	15.5
2000	14.8
2500	14.0
3150	14.3
4000	-
5000	-



**L<sub>nT,w</sub> (Ci) = 48 (2) dB**

Rating in accordance to ISO 717-2

# MuteMat® 2 Performance Data

## Timber Floor | MuteMat® 2 Plus

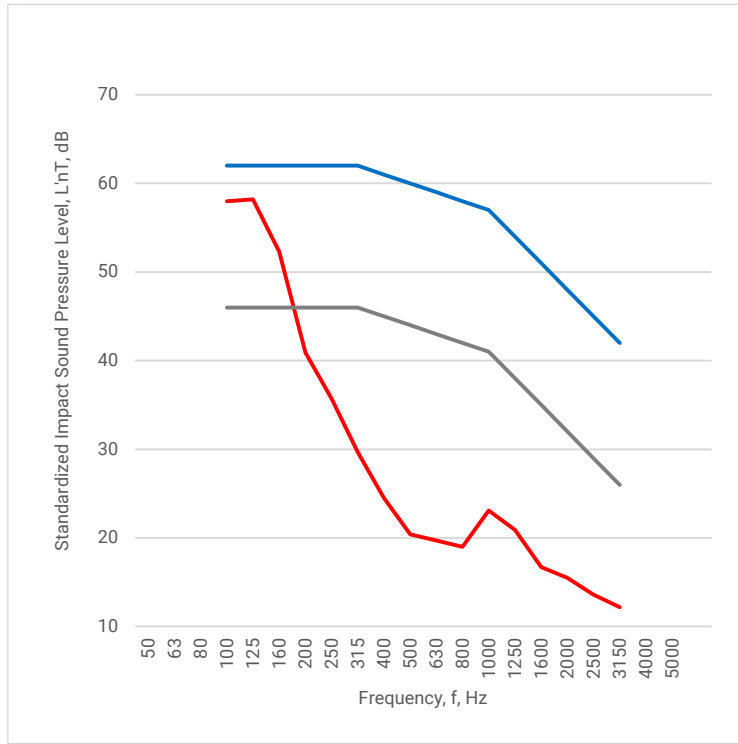
### Treated Floor Impact Results

Weighted Normalized Impact Sound Pressure Level according to ISO 717-2  
Receiving Room Volume: >750 m³

### Floor Build-Up:

MuteMat® 2 (Loose Laid)	(7.5 kg/m²)	19mm SoundPlank	(15 kg/m²)
Tecsound SY70	(7 kg/m²)	15mm Acoustic Plasterboard	(12.5 kg/m²)
22mm T&G Chipboard	(15 kg/m²)		
300mm x 50mm Joists (400mm Centres)			
100mm Mineral Wool   45 kg/m³	(4.5 kg/m²)		

Hz	1/3 Octave
50	-
63	-
80	-
100	58.0
125	58.2
160	52.3
200	40.9
250	35.7
315	29.7
400	24.5
500	20.4
630	19.7
800	19.0
1000	23.1
1250	20.9
1600	16.7
2000	15.5
2500	13.6
3150	12.2
4000	-
5000	-



**L'nT,w = 44 dB**

Rating in accordance to ISO 717-2

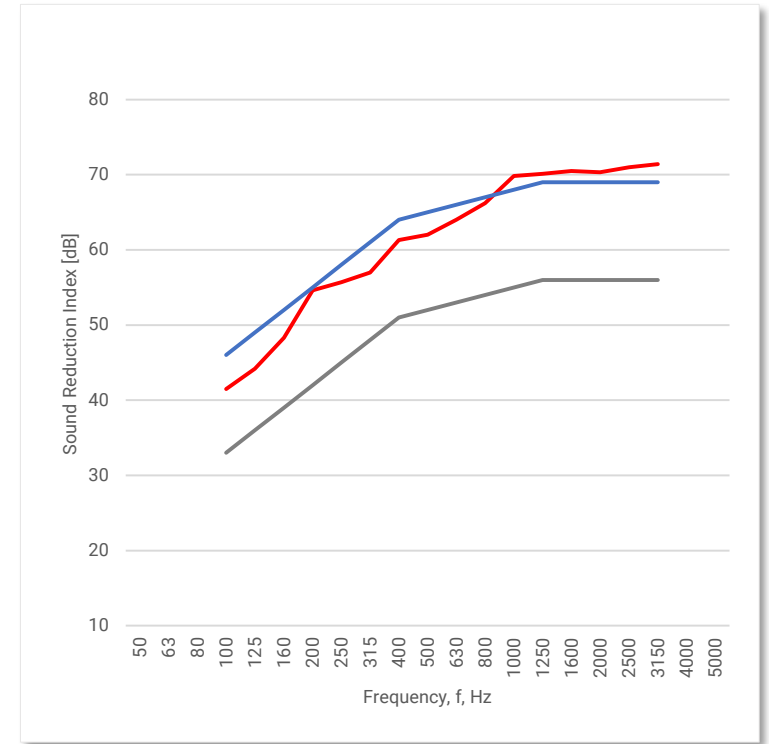
### Treated Floor Airborne Results

Weighted Standardized Level Difference according to ISO 717-1  
Receiving Room Volume: >750 m³

### Floor Build-Up:

MuteMat® 2 (Loose Laid)	(7.5 kg/m²)	19mm SoundPlank	(15 kg/m²)
Tecsound SY70	(7 kg/m²)	15mm Acoustic Plasterboard	(12.5 kg/m²)
22mm T&G Chipboard	(15 kg/m²)		
300mm x 50mm Joists (400mm Centres)			
100mm Mineral Wool   45 kg/m³	(4.5 kg/m²)		

Hz	1/3 Octave
50	-
63	-
80	-
100	41.5
125	44.2
160	48.3
200	54.6
250	55.7
315	57.0
400	61.3
500	62.0
630	64.0
800	66.2
1000	69.8
1250	70.1
1600	70.5
2000	70.3
2500	71.0
3150	71.4
4000	-
5000	-



**DnT,w (C;Ctr) = 65 (-2;-7) dB**

Rating in accordance to ISO 717-1

# MuteMat® 3 Performance Data

## Timber Floor | MuteMat® 3

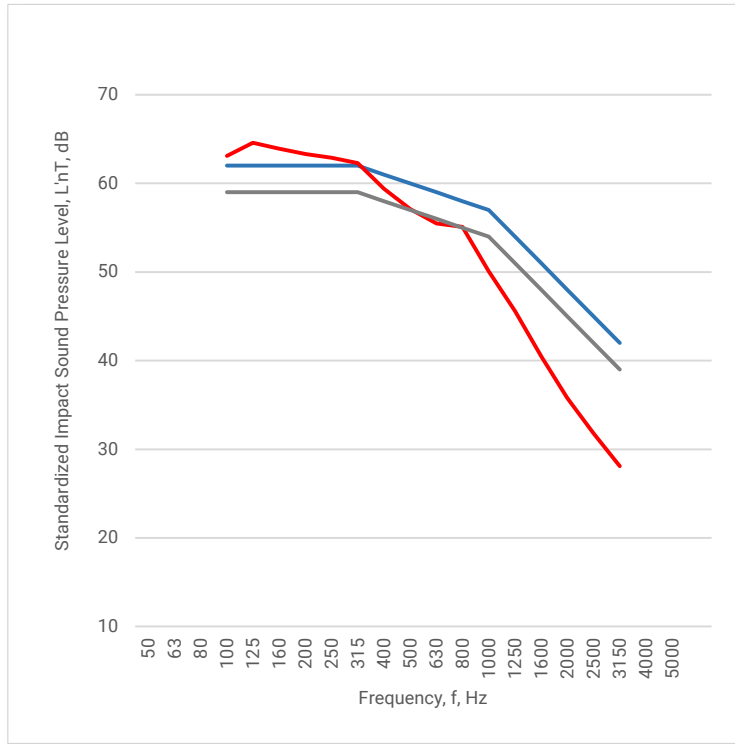
### Untreated Floor Impact Results

Weighted Normalized Impact Sound Pressure Level according to ISO 717-2  
Receiving Room Volume: >750 m³

### Floor Build-Up:

22mm T&G Chipboard (15 kg/m²)  
300mm x 50mm Joists (400mm Centres)  
100mm Mineral Wool | 45 kg/m³ (4.5 kg/m²)  
19mm SoundPlank (15 kg/m²)  
15mm Acoustic Plasterboard (12.5 kg/m²)

Hz	1/3 Octave
50	-
63	-
80	-
100	63.1
125	64.6
160	63.9
200	63.3
250	62.9
315	62.3
400	59.4
500	57.1
630	55.5
800	55.1
1000	50.1
1250	45.6
1600	40.5
2000	35.8
2500	31.8
3150	28.1
4000	-
5000	-



L'nT,w (Ci) = 57 dB

Rating in accordance to ISO 717-2

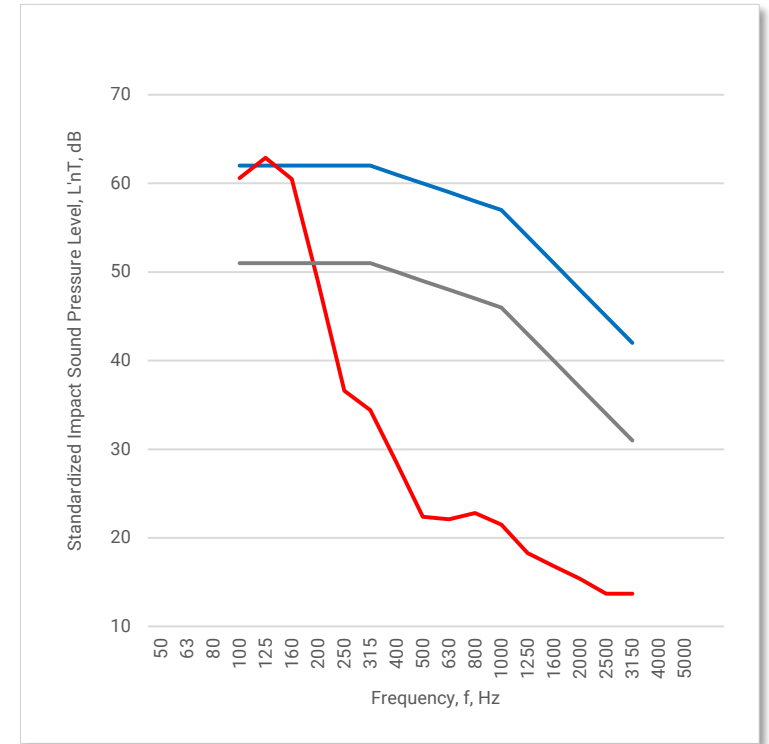
### Treated Floor Impact Results

Weighted Normalized Impact Sound Pressure Level according to ISO 717-2  
Receiving Room Volume: >750 m³

### Floor Build-Up:

MuteMat® 3 (12.5 kg/m²)  
Original Floor Make-Up (47 kg/m²)

Hz	1/3 Octave
50	-
63	-
80	-
100	60.6
125	62.9
160	60.5
200	48.9
250	36.6
315	34.4
400	28.5
500	22.4
630	22.1
800	22.8
1000	21.5
1250	18.3
1600	16.8
2000	15.4
2500	13.7
3150	13.7
4000	-
5000	-



L'nT,w (Ci) = 49 (2) dB

Rating in accordance to ISO 717-2

# MuteMat® 3 Performance Data

## Timber Floor | MuteMat® 3

### Treated Floor Impact Results

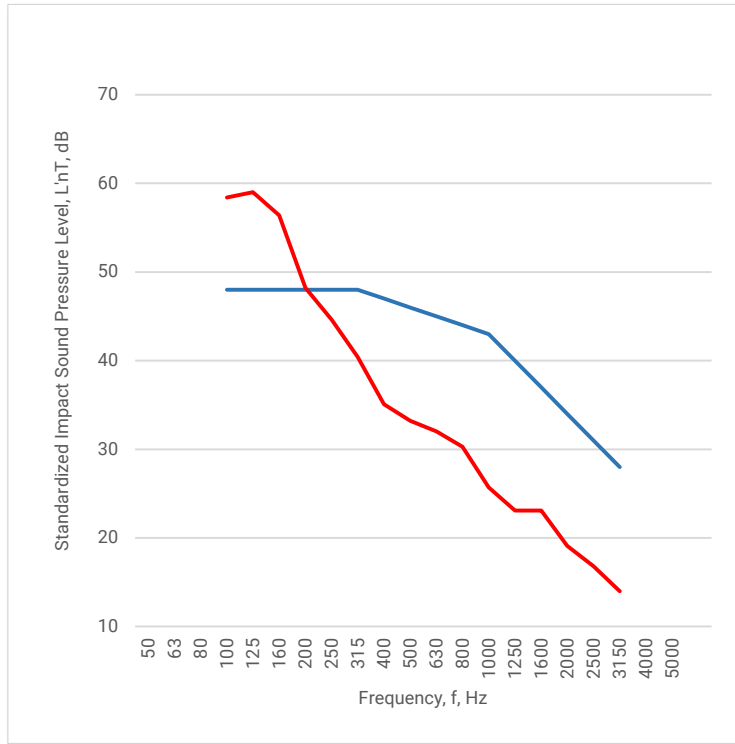
Weighted Normalized Impact Sound Pressure Level according to ISO 717-2  
Receiving Room Volume: 35 m³

### Floor Build-Up:

8mm Carpet  
MuteMat® 3 (12.5 kg/m²)  
18mm T&G Chipboard (12 kg/m²)  
225mm x 50mm Joists (400mm Centres)  
100mm Mineral Wool | 45 kg/m³ (4.5 kg/m²)

12.5mm Acoustic Board (10 kg/m²)  
12.5mm Acoustic Board (10 kg/m²)

Hz	1/3 Octave
50	-
63	-
80	-
100	58.4
125	59.0
160	56.4
200	48.2
250	44.6
315	40.4
400	35.1
500	33.2
630	32.0
800	30.3
1000	25.7
1250	23.1
1600	23.1
2000	19.1
2500	16.8
3150	14.0
4000	-
5000	-



L<sub>nT,w</sub> (Ci) = 46 (2) dB

Rating in accordance to ISO 717-2

### Treated Floor Airborne Results

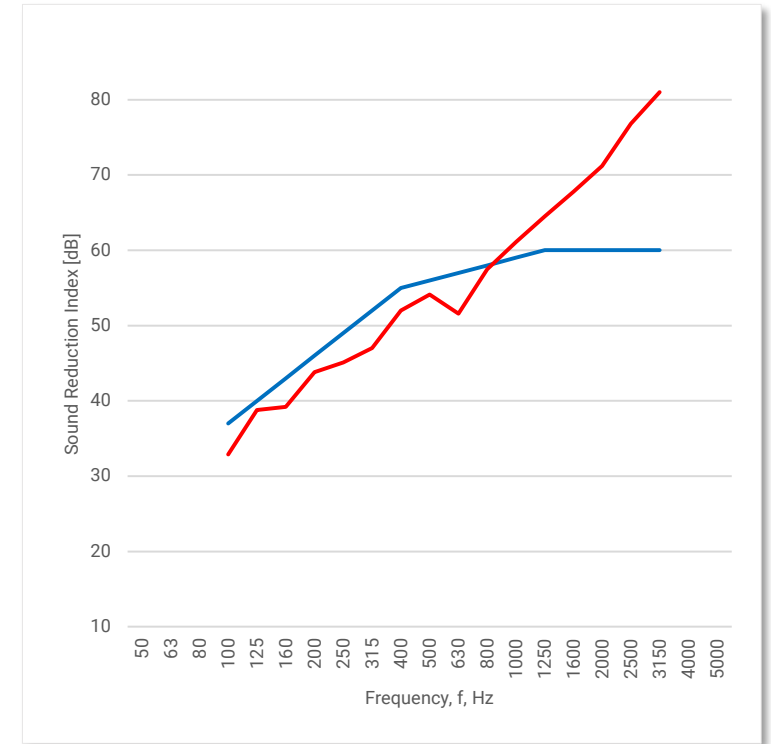
Weighted Standardized Level Difference according to ISO 717-1  
Receiving Room Volume: 35 m³

### Floor Build-Up:

8mm Carpet  
MuteMat® 3 (12.5 kg/m²)  
18mm T&G Chipboard (12 kg/m²)  
225mm x 50mm Joists (400mm Centres)  
100mm Mineral Wool | 45 kg/m³ (4.5 kg/m²)

12.5mm Acoustic Board (10 kg/m²)  
12.5mm Acoustic Board (10 kg/m²)

Hz	1/3 Octave
50	-
63	-
80	-
100	32.9
125	38.8
160	39.2
200	43.8
250	45.1
315	47.0
400	52.0
500	54.1
630	51.6
800	57.5
1000	61.1
1250	64.5
1600	67.8
2000	71.2
2500	76.8
3150	81.0
4000	-
5000	-



D<sub>nT,w</sub> (C;Ctr) = 56 (-2;-7) dB

Rating in accordance to ISO 717-1

# MuteMat® OSF Performance Data

## Timber Floor | MuteMat® OSF 750-10

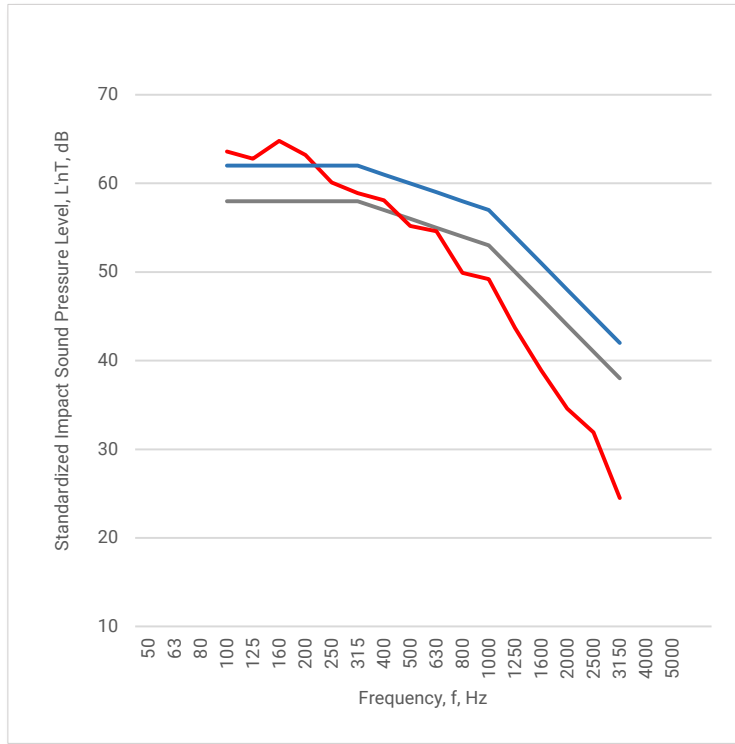
### Treated Floor Impact Results

Weighted Normalized Impact Sound Pressure Level according to ISO 717-2  
Receiving Room Volume: 76 m³

### Floor Build-Up:

22mm Chipboard	(15 kg/m²)
220mm Timber Joist	
100mm Mineral Wool   60 kg/m³	(6 kg/m²)
MuteClip® and MuteClip® Channel	
15mm Acoustic Plasterboard	(12.5 kg/m²)
15mm Acoustic Plasterboard	(12.5 kg/m²)

Hz	1/3 Octave
50	-
63	-
80	-
100	63.6
125	62.8
160	64.8
200	63.2
250	60.1
315	58.9
400	58.1
500	55.2
630	54.6
800	49.9
1000	49.2
1250	43.7
1600	38.9
2000	34.6
2500	31.9
3150	24.5
4000	-
5000	-



**L<sub>nT,w</sub> (Ci) = 56 (0) dB**

Rating in accordance to ISO 717-2

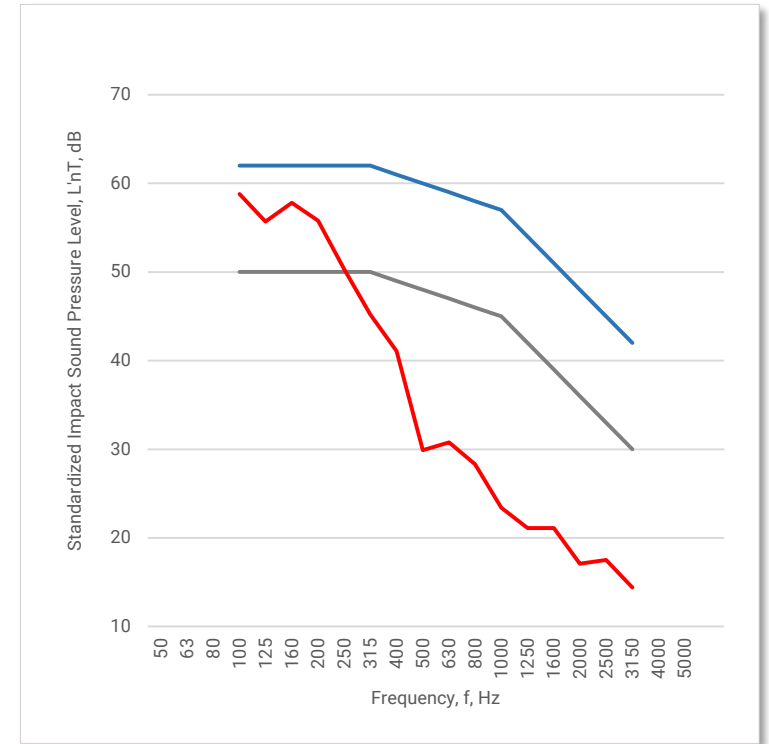
### Treated Flooring Impact Results

Weighted Normalized Impact Sound Pressure Level according to ISO 717-2  
Receiving Room Volume: 76 m³

### Additional Flooring System:

MuteMat® OSF 750-10	(7.5 kg/m²)
Original Ceiling Make-Up	(46 kg/m²)

Hz	1/3 Octave
50	-
63	-
80	-
100	58.8
125	55.7
160	57.8
200	55.8
250	50.3
315	45.2
400	41.1
500	29.9
630	30.8
800	28.3
1000	23.4
1250	21.1
1600	21.1
2000	17.1
2500	17.5
3150	14.4
4000	-
5000	-



**L<sub>nT,w</sub> (Ci) = 48 (1) dB**

Rating in accordance to ISO 717-2

# MuteMat® 3 Performance Data

## Concrete Floor | MuteMat® 3

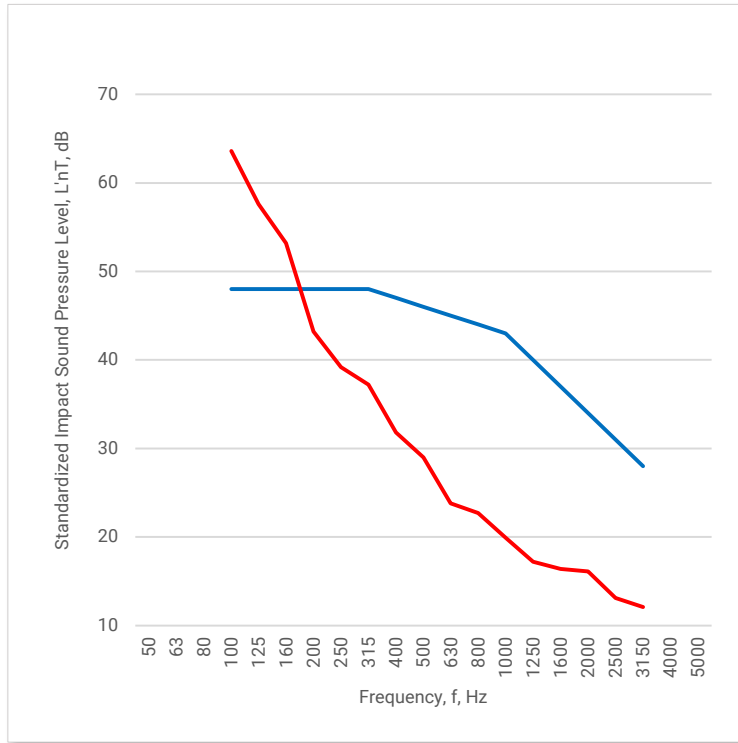
### Treated Floor Impact Results

Weighted Normalized Impact Sound Pressure Level according to ISO 717-2  
Receiving Room Volume: 57 m³

### Floor Build-Up:

3mm Vinyl (Fixed with Mapei VS90)  
9mm Chipboard (Fixed with Mapei VS90)  
MuteMat® 3 (12.5 kg/m²)  
140mm Concrete Slab Floor (276 kg/m²)  
12.5mm Acoustic Board (10 kg/m²)

Hz	1/3 Octave
50	-
63	-
80	-
100	63.6
125	57.6
160	53.2
200	43.2
250	39.2
315	37.2
400	31.8
500	29.0
630	23.8
800	22.7
1000	19.9
1250	17.2
1600	16.4
2000	16.1
2500	13.1
3150	12.1
4000	-
5000	-



**L<sub>nT,w</sub> (Ci) = 46 (4) dB**

Rating in accordance to ISO 717-2

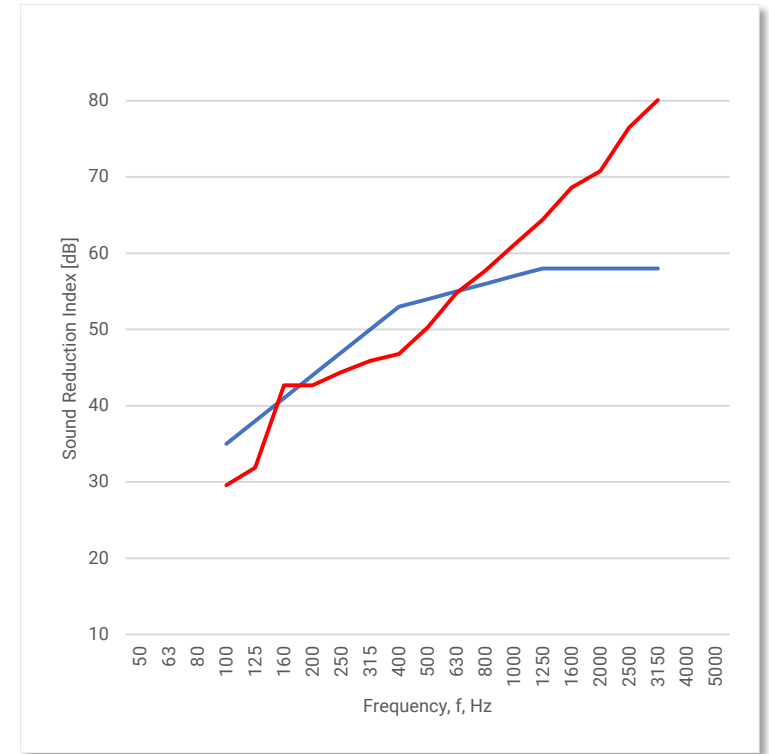
### Treated Floor Airborne Results

Weighted Standardized Level Difference according to ISO 717-1  
Receiving Room Volume: 57 m³

### Floor Build-Up:

3mm Vinyl (Fixed with Mapei VS90)  
9mm Chipboard (Fixed with Mapei VS90)  
MuteMat® 3 (12.5 kg/m²)  
140mm Concrete Slab Floor (276 kg/m²)  
12.5mm Acoustic Board (10 kg/m²)

Hz	1/3 Octave
50	-
63	-
80	-
100	29.6
125	31.9
160	42.7
200	42.7
250	44.4
315	45.9
400	46.8
500	50.3
630	54.8
800	57.7
1000	61.1
1250	64.4
1600	68.6
2000	70.8
2500	76.5
3150	80.1
4000	-
5000	-



**D<sub>nT,w</sub> (C;Ctr) = 54 (-2;-8) dB**

Rating in accordance to ISO 717-1

# MuteMat® 3 Performance Data

## Concrete Floor | MuteMat® 3

### Treated Floor Impact Results

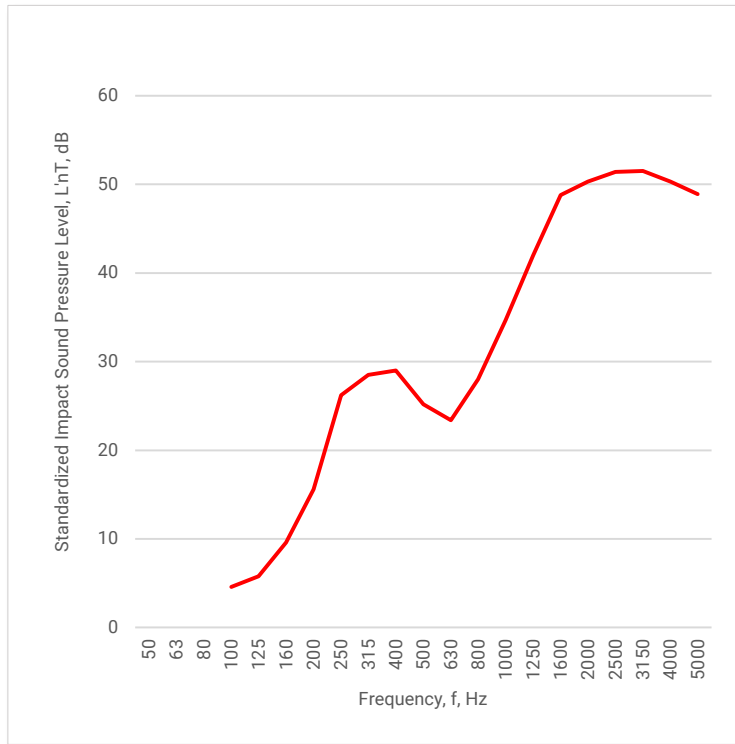
Weighted Normalized Reduction of Impact Sound Pressure Level according to ISO 140-8:1998

Receiving Room Volume: 300 m³

### Floor Build-Up:

MuteMat® 3 (12.5 kg/m²)  
 140mm Concrete Slab Floor (322 kg/m²)

Hz	1/3 Octave
50	-
63	-
80	-
100	4.6
125	5.8
160	9.6
200	15.6
250	26.2
315	28.5
400	29.0
500	25.2
630	23.4
800	28.0
1000	34.7
1250	42.0
1600	48.8
2000	50.3
2500	51.4
3150	51.5
4000	50.3
5000	48.9



Δ L<sub>w</sub> = 29 dB

Rating in accordance to ISO 140-8:1998



# MuteMat® OSF Performance Data

## Concrete Floor | MuteMat® OSF 750-03

### Treated Floor Impact Results

Weighted Normalized Impact Sound Pressure Level according to ISO 717-2

Receiving Room Volume: 221 m³

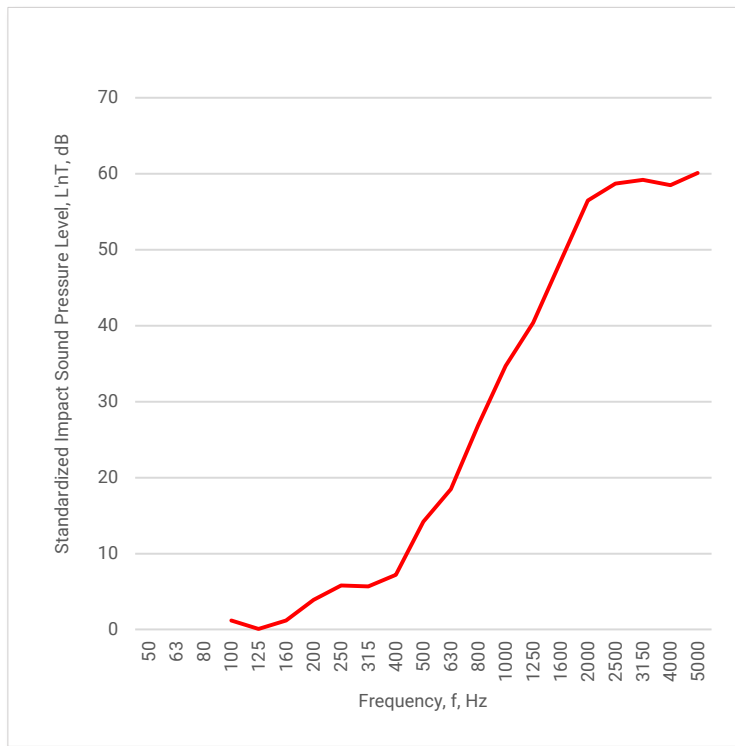
### Floor Build-Up:

MuteMat® OSF 750-03

(2.25 kg/m²)

140mm Concrete Floor

Hz	1/3 Octave
50	-
63	-
80	-
100	1.2
125	0.1
160	1.2
200	3.9
250	5.8
315	5.7
400	7.2
500	14.2
630	18.5
800	26.9
1000	34.7
1250	40.4
1600	48.5
2000	56.5
2500	58.7
3150	59.2
4000	58.5
5000	60.1



Δ L<sub>w</sub> = 19 dB

Rating in accordance to ISO 717-2

# MuteMat® OSF Performance Data

## Concrete Floor | MuteMat® OSF 750-05

### Treated Floor Impact Results

Weighted Normalized Impact Sound Pressure Level according to ISO 717-2

Receiving Room Volume: 221 m³

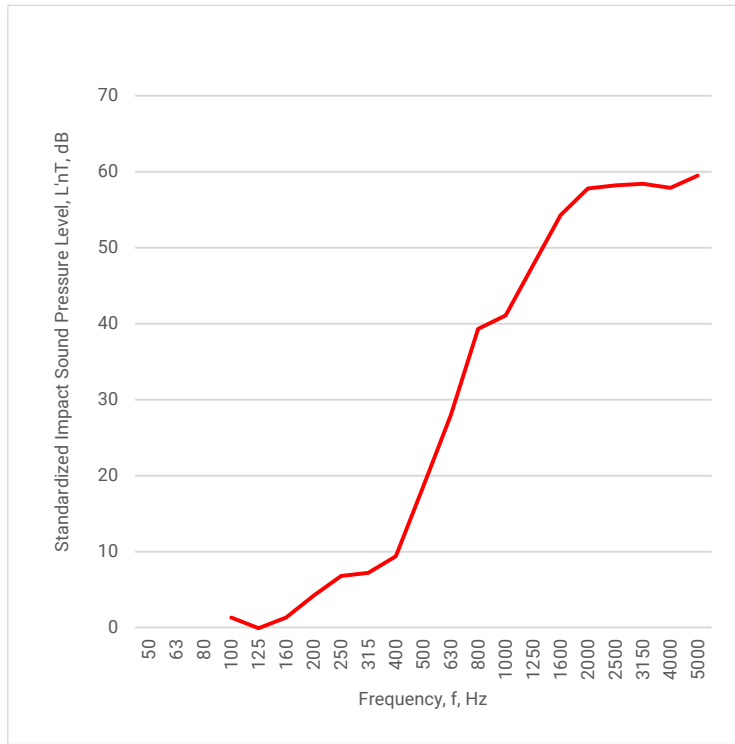
### Floor Build-Up:

MuteMat® OSF 750-05

(3.75 kg/m²)

140mm Concrete Floor

Hz	1/3 Octave
50	-
63	-
80	-
100	1.3
125	-0.1
160	1.3
200	4.2
250	6.8
315	7.2
400	9.4
500	18.6
630	28.0
800	39.3
1000	41.1
1250	47.7
1600	54.3
2000	57.8
2500	58.2
3150	58.4
4000	57.9
5000	59.5



Δ L<sub>w</sub> = 20 dB

Rating in accordance to ISO 717-2

# MuteMat® OSF Performance Data

## Concrete Floor | MuteMat® OSF 750-10

### Treated Floor Impact Results

Weighted Normalized Impact Sound Pressure Level according to ISO 717-2

Receiving Room Volume: 221 m³

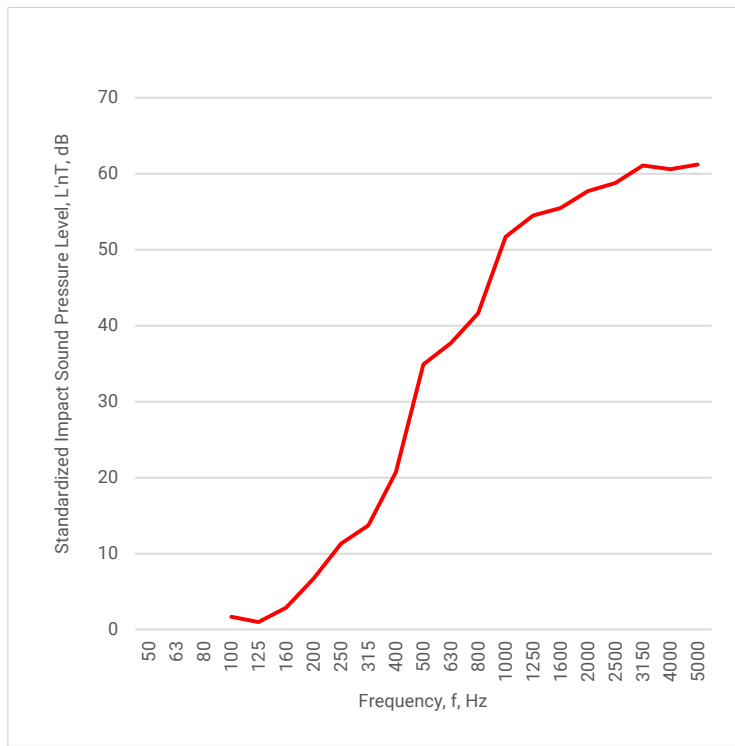
### Floor Build-Up:

MuteMat® OSF 750-10

(7.5 kg/m²)

140mm Concrete Floor

Hz	1/3 Octave
50	-
63	-
80	-
100	1.7
125	1.0
160	2.9
200	6.7
250	11.3
315	13.7
400	20.7
500	34.9
630	37.7
800	41.6
1000	51.7
1250	54.5
1600	55.5
2000	57.7
2500	58.8
3150	61.1
4000	60.6
5000	61.2



Δ L<sub>w</sub> = 23 dB

Rating in accordance to ISO 717-2

# MuteMat® USF Performance Data

## Underscreed | MuteMat® USF 650-03

### Treated Floor Impact Results

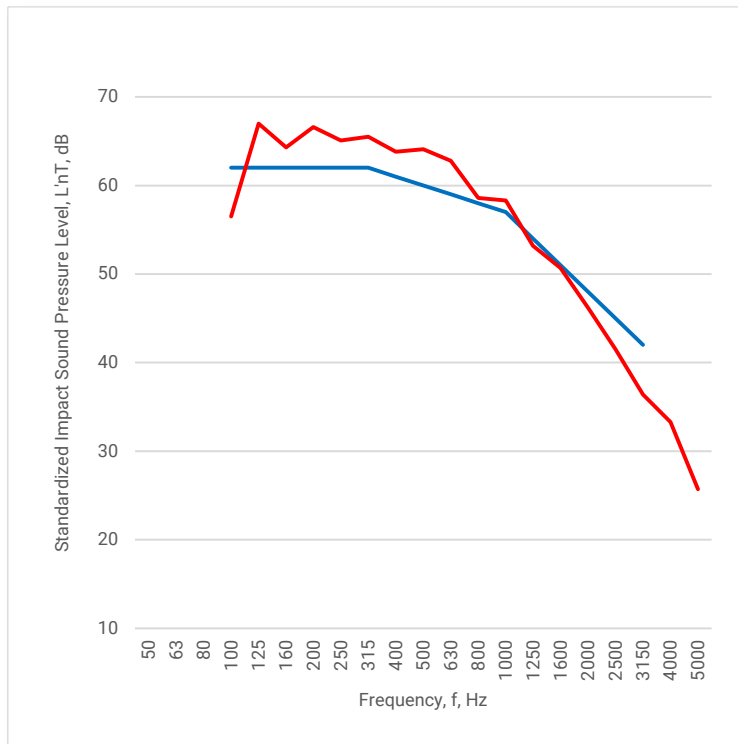
Weighted Normalized Impact Sound Pressure Level according to ISO 717-2

Receiving Room Volume: 48.6 m³

### Floor Build-Up:

50mm Screed Layer	(110 kg/m²)
MuteMat® USF 650-03	(1.95 kg/m²)
120mm Concrete Floor	(264 kg/m²)

Hz	1/3 Octave
50	-
63	-
80	-
100	56.5
125	67.0
160	64.3
200	66.6
250	65.1
315	65.5
400	63.8
500	64.1
630	62.8
800	58.6
1000	58.3
1250	53.2
1600	50.7
2000	46.2
2500	41.5
3150	36.4
4000	33.3
5000	25.7



$\Delta L_w = 23 \text{ dB}$

Rating in accordance to ISO 717-2

# MuteMat® USP Performance Data

## Underscreed | MuteMat® USP 750-08

### Treated Floor Impact Results

Weighted Normalized Impact Sound Pressure Level according to ISO 717-2

Receiving Room Volume: 48.6 m³

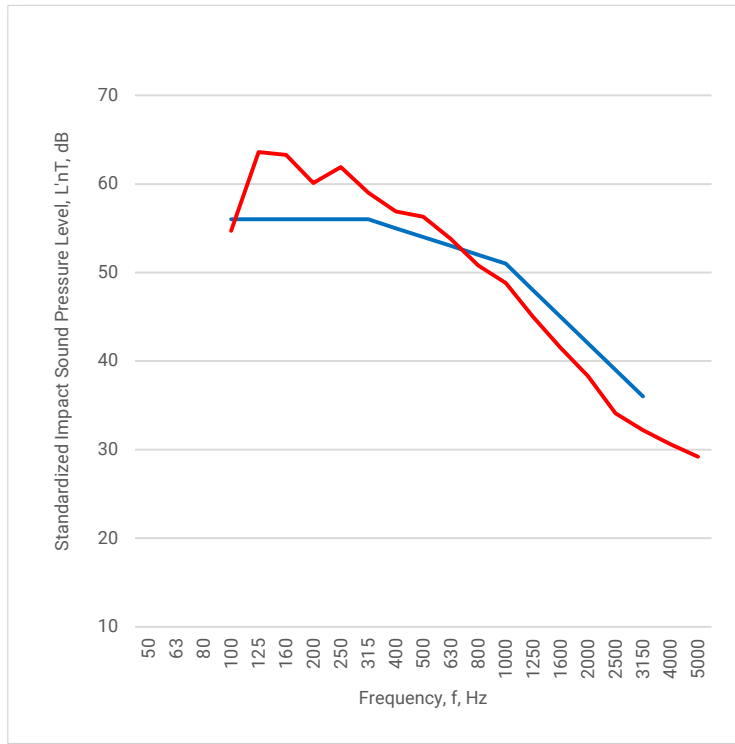
### Floor Build-Up:

50mm Screed Layer (110 kg/m²)

MuteMat® USP 750-08

120mm Concrete Floor (264 kg/m²)

Hz	1/3 Octave
50	-
63	-
80	-
100	54.7
125	63.6
160	63.3
200	60.1
250	61.9
315	59
400	56.9
500	56.3
630	53.8
800	50.8
1000	48.8
1250	45
1600	41.5
2000	38.3
2500	34.1
3150	32.2
4000	30.6
5000	29.2



$\Delta L_w = 26$  dB

Rating in accordance to ISO 717-2

# MuteMat® USP Performance Data

## Underscreed | MuteMat® USP 625-17

### Treated Floor Impact Results

Weighted Normalized Impact Sound Pressure Level according to ISO 717-2

Receiving Room Volume: 48.6 m³

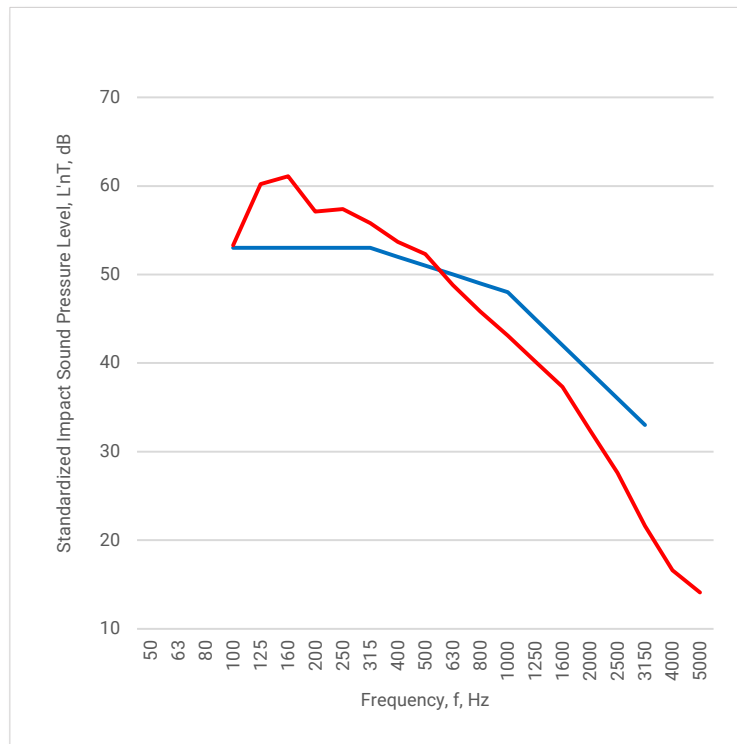
### Floor Build-Up:

50mm Screed Layer (110 kg/m²)

MuteMat® USP 625-17

120mm Concrete Floor (264 kg/m²)

Hz	1/3 Octave
50	-
63	-
80	-
100	53.3
125	60.2
160	61.1
200	57.1
250	57.4
315	55.8
400	53.7
500	52.3
630	48.8
800	45.8
1000	43.1
1250	40.2
1600	37.3
2000	32.4
2500	27.6
3150	21.6
4000	16.6
5000	14.1



Δ L<sub>w</sub> = 28 dB

Rating in accordance to ISO 717-2