



## **MuteClip® Systems** Performance Data

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<b>Concrete Ceiling</b>	2-3
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<b>Masonry Wall</b>	9-10
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# MuteClip® Performance Data

## Concrete Ceiling | MuteClip® Concrete Stud Double Plus

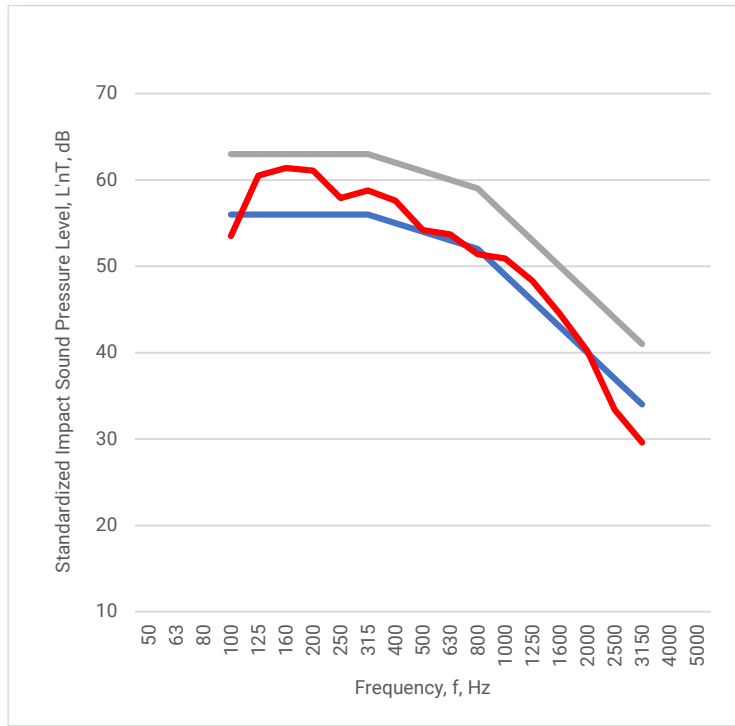
### Untreated Ceiling Impact Results

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

### Ceiling Build-Up:

140mm Pre-Cast Concrete	(322 kg/m²)
5mm Resilient Layer	
70mm Screed with UFH	(60 kg/m²)
28mm Timber Flooring	(16 kg/m²)

Hz	1/3 Octave
50	-
63	-
80	-
100	53.5
125	60.5
160	61.4
200	61.1
250	57.9
315	58.8
400	57.6
500	54.2
630	53.7
800	51.4
1000	50.9
1250	48.3
1600	44.5
2000	40.2
2500	33.4
3150	29.6
4000	-
5000	-



L'nT,w = 54 dB

Rating in accordance to ISO 717-2

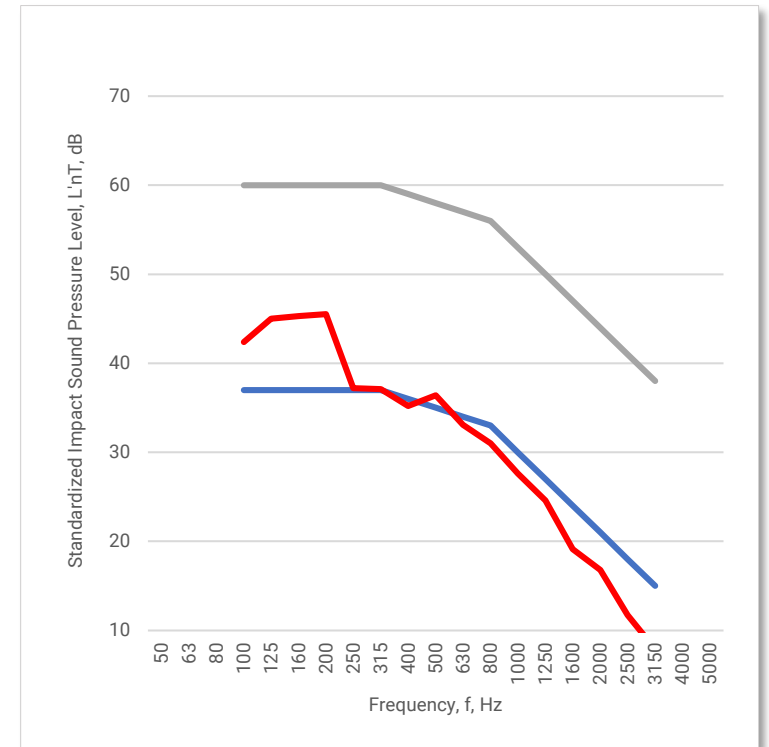
### Treated Ceiling Impact Results

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

### Additional Ceiling Build-Up:

3mm Skim		75mm Mineral Wool   60 kg/m³	(4.5 kg/m²)
15mm Acoustic Board	(12.5 kg/m²)	Original Ceiling Make-Up	(368 kg/m²)
Tecsound SY70	(7 kg/m²)		
19mm SoundPlank	(15 kg/m²)		
MuteClip® and MuteClip® Channel			
50mm Battens at 400mm Centres			

Hz	1/3 Octave
50	-
63	-
80	-
100	42.4
125	45
160	45.3
200	45.5
250	37.2
315	37.1
400	35.2
500	36.4
630	33.1
800	31
1000	27.6
1250	24.6
1600	19.1
2000	16.8
2500	11.7
3150	7.9
4000	-
5000	-



L'nT,w = 35 dB

Rating in accordance to ISO 717-2

# MuteClip® Performance Data

## Concrete Ceiling | MuteClip® Concrete Stud Double Plus

### Untreated Ceiling Airborne Results

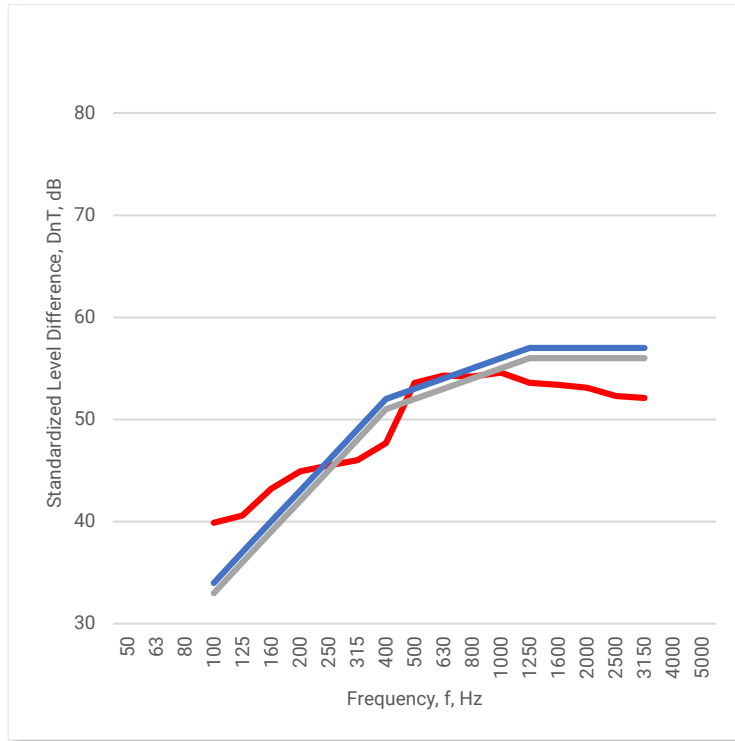
Weighted Standardized Level Difference according to ISO 717-1

Receiving Room Volume: 76 m³

### Ceiling Build-Up:

140mm Pre-Cast Concrete	(322 kg/m²)
5mm Resilient Layer	
70mm Screed with UFH	(60 kg/m²)
28mm Timber Flooring	(16 kg/m²)

Hz	1/3 Octave
50	-
63	-
80	-
100	39.9
125	40.6
160	43.2
200	44.9
250	45.5
315	46
400	47.7
500	53.6
630	54.3
800	54.2
1000	54.6
1250	53.6
1600	53.4
2000	53.1
2500	52.3
3150	52.1
4000	-
5000	-



**DnT,w (C;Ctr) = 53 (-1;-3) dB**

Rating in accordance to ISO 717-1

### Treated Ceiling Airborne Results

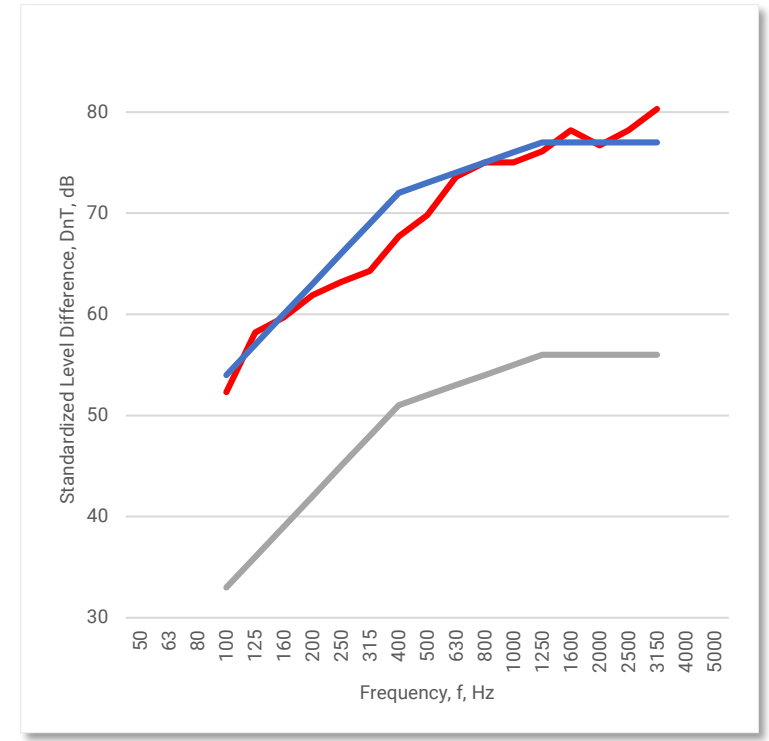
Weighted Standardized Level Difference according to ISO 717-1

Receiving Room Volume: 76 m³

### Additional Ceiling Build-Up:

3mm Skim		75mm Mineral Wool   60 kg/m³	(4.5 kg/m²)
15mm Acoustic Board	(12.5 kg/m²)	Original Ceiling Make-Up	(398 kg/m²)
Tecsound SY70	(7 kg/m²)		
19mm SoundPlank	(15 kg/m²)		
MuteClip® and MuteClip® Channel			
50mm Battens at 400mm Centres			

Hz	1/3 Octave
50	-
63	-
80	-
100	52.3
125	58.2
160	59.7
200	61.9
250	63.2
315	64.3
400	67.7
500	69.8
630	73.6
800	75
1000	75
1250	76.1
1600	78.2
2000	76.7
2500	78.2
3150	80.3
4000	-
5000	-



**DnT,w (C;Ctr) = 73 (-1;-5) dB**

Rating in accordance to ISO 717-1

# MuteClip® Performance Data

## Timber Ceiling | MuteClip® Double Plus

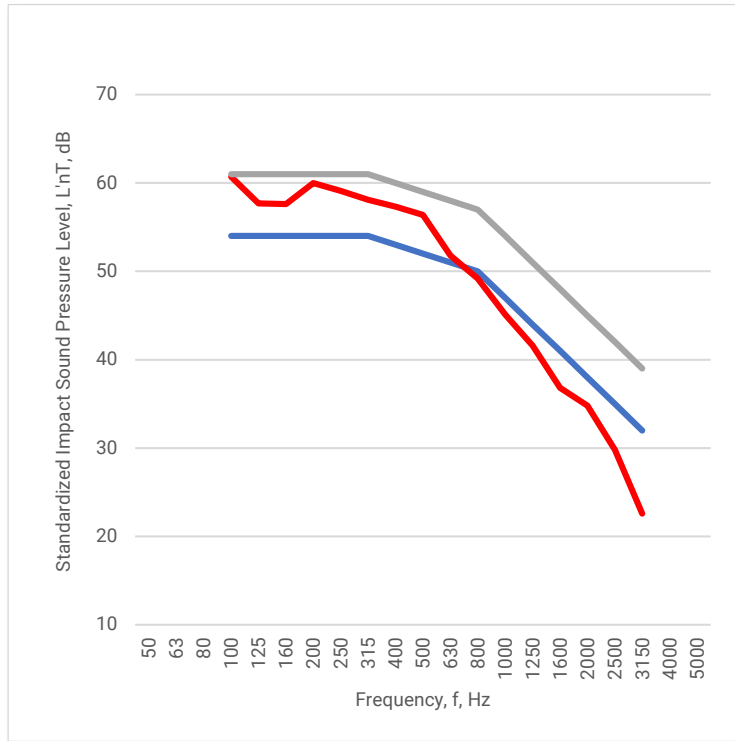
### Treated Ceiling Impact Results

Weighted Normalized Impact Sound Pressure Level according to ISO 717-2  
Receiving Room Volume: 26 m³

### Ceiling Build-Up:

16mm Engineered Floor	(9.1 kg/m²)	MuteClip® and MuteClip® Channel	
2mm Sponge Underlay	(0.2 kg/m²)	19mm SoundPlank	(15 kg/m²)
18mm T&G Chipboard	(10.2 kg/m²)	Tecsound SY70	(7 kg/m²)
225mm x 50mm Joists (400mm Centres)		15mm Acoustic Board	(12.5 kg/m²)
150mm Mineral Wool   60 kg/m³	(9 kg/m²)	2mm Skim	

Hz	1/3 Octave
50	-
63	-
80	-
100	60.7
125	57.7
160	57.6
200	60
250	59.1
315	58.1
400	57.3
500	56.4
630	51.8
800	49.2
1000	45.1
1250	41.6
1600	36.8
2000	34.8
2500	29.8
3150	22.6
4000	-
5000	-



**L'nT,w (Ci) = 53 (0) dB**

Rating in accordance to ISO 717-2

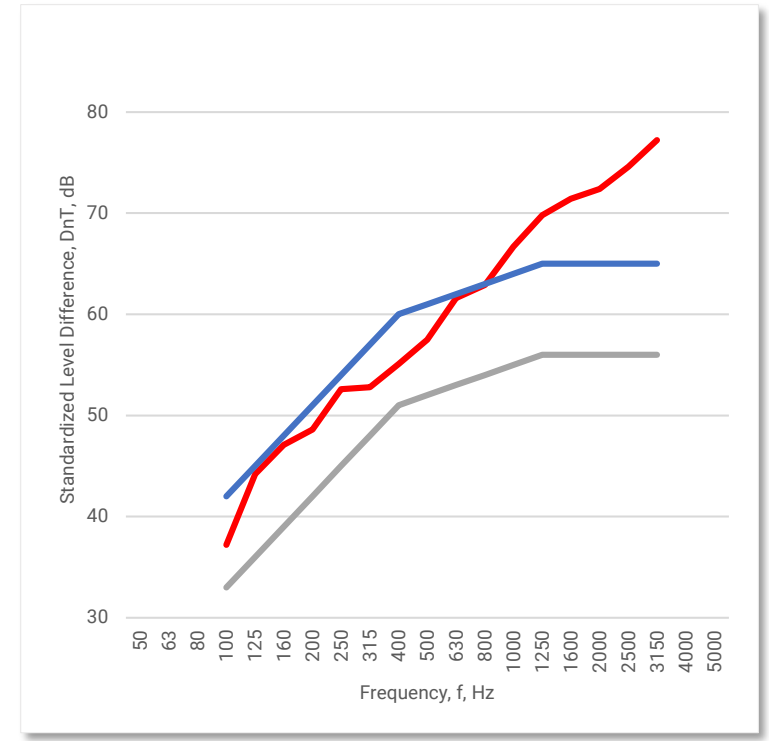
### Treated Ceiling Airborne Results

Weighted Standardized Level Difference according to ISO 717-1  
Receiving Room Volume: 26 m³

### Ceiling Build-Up:

16mm Engineered Floor	(9.1 kg/m²)	MuteClip® and MuteClip® Channel	
2mm Sponge Underlay	(0.2 kg/m²)	19mm SoundPlank	(15 kg/m²)
18mm T&G Chipboard	(10.2 kg/m²)	Tecsound SY70	(7 kg/m²)
225mm x 50mm Joists (400mm Centres)		15mm Acoustic Board	(12.5 kg/m²)
150mm Mineral Wool   60 kg/m³	(9 kg/m²)	2mm Skim	

Hz	1/3 Octave
50	-
63	-
80	-
100	37.2
125	44.2
160	47.1
200	48.6
250	52.6
315	52.8
400	55.1
500	57.5
630	61.6
800	62.9
1000	66.7
1250	69.8
1600	71.4
2000	72.4
2500	74.6
3150	77.2
4000	-
5000	-



**DnT,w (C;Ctr) = 61 (-1;-7) dB**

Rating in accordance to ISO 717-1

# MuteClip® Performance Data

## Timber Ceiling | MuteClip® Double (No Tecsound)

### Treated Ceiling Airborne Results

Weighted Standardized Level Difference according to ISO 717-1

Source Room Volume: 110 m³ | Receiving Room Volume: 84 m³

### Ceiling Build-Up:

22mm Chipboard (15 kg/m²)

220mm Timber Joist

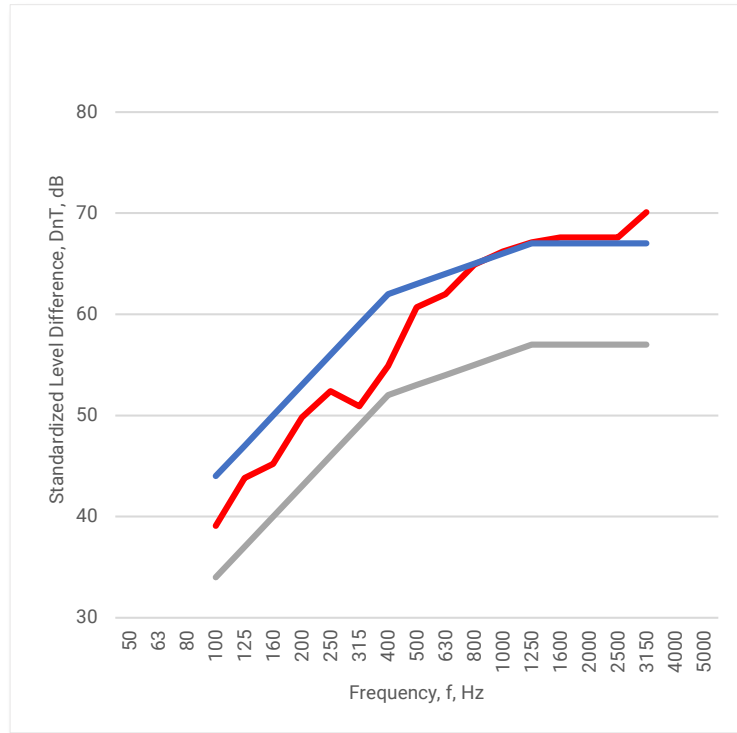
100mm Mineral Wool | 60 kg/m³ (6 kg/m²)

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	39.1
125	43.8
160	45.2
200	49.8
250	52.4
315	50.9
400	54.9
500	60.7
630	62.0
800	64.9
1000	66.2
1250	67.1
1600	67.6
2000	67.6
2500	67.6
3150	70.1
4000	-
5000	-



DnT,w (C;Ctr) = 62 (-2;-7) dB

Rating in accordance to ISO 717-1

# MuteClip® Performance Data

## Timber Ceiling and Flooring | MuteClip® Double (No Tecsound) and MuteMat® OSF 750-10

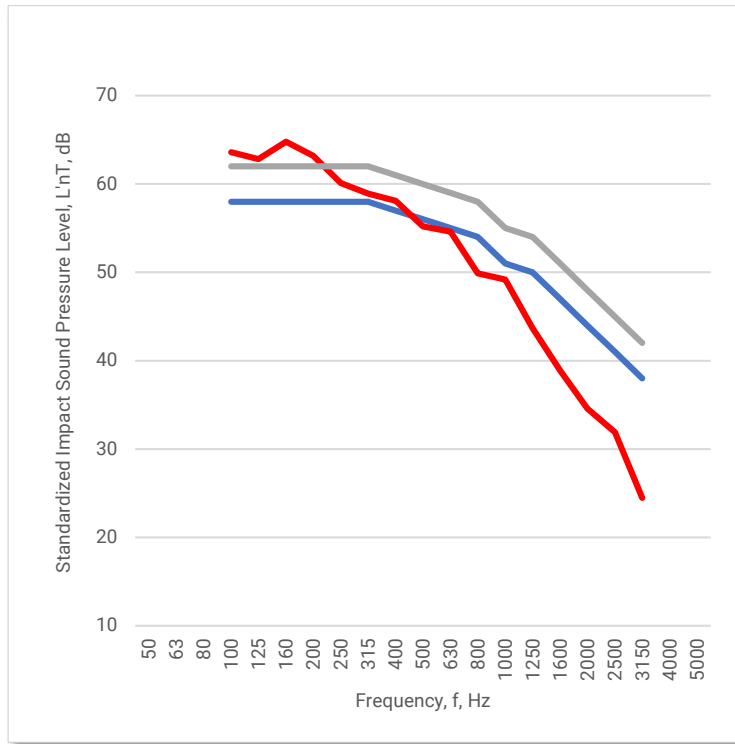
### Treated Ceiling Impact Results

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

### Ceiling 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'nT,w (Ci) = 56 (0) dB

Rating in accordance to ISO 717-2

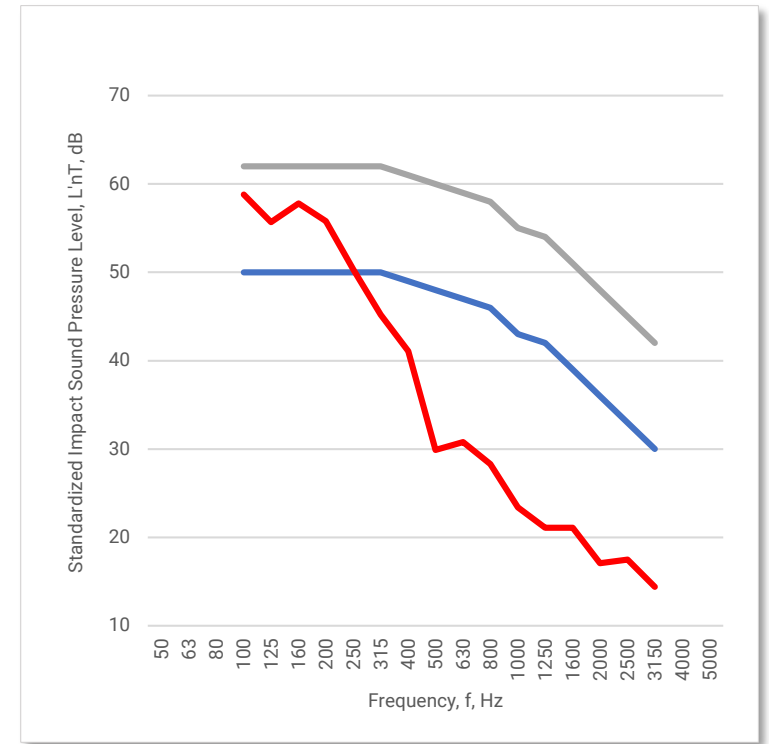
### Treated Ceiling Impact Results

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'nT,w (Ci) = 48 (1) dB

Rating in accordance to ISO 717-2

# MuteClip® Performance Data

## Timber Ceiling and Flooring | MuteClip® Double, Versafloor® and MuteMat OSF 750-10

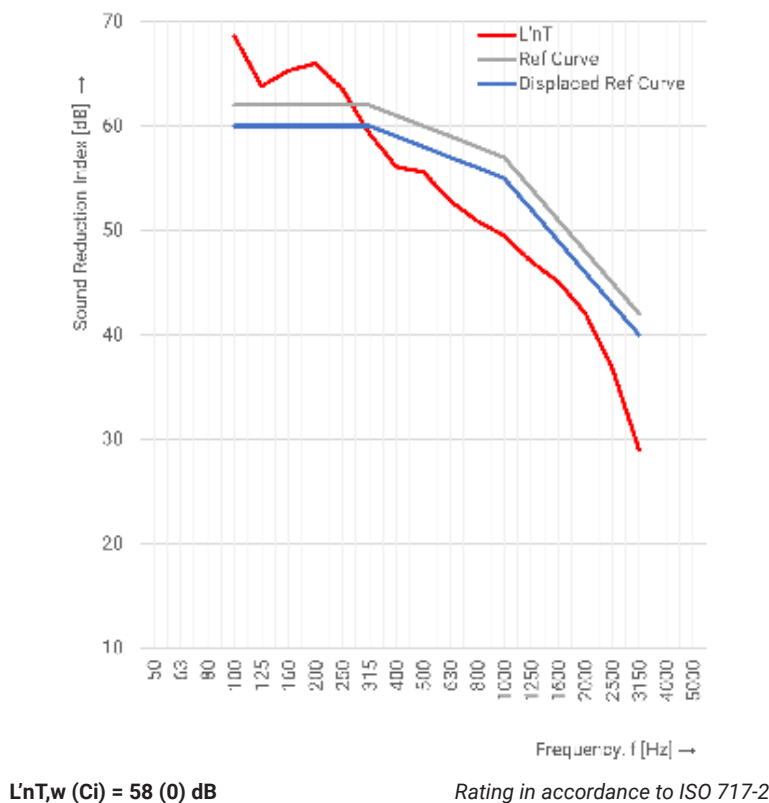
### Treated Ceiling Impact Results

Weighted Normalized Impact Sound Pressure Level according to ISO 717-2  
 Receiving Source Room Volume: 44 m³ | Receiving Room Volume: 30 m³

### Ceiling Build-Up:

22mm Versafloor (25 kg/m²) Tecsound SY70 (7 kg/m³)  
 Isolation Strip P8 15mm Acoustic Plasterboard (12.5 kg/m²)  
 220mm Timber Joist  
 150mm Mineral Wool | 60 kg/m³ (9 kg/m²)  
 MuteClip® and MuteClip® Channel  
 15mm Acoustic Plasterboard (12.5 kg/m²)

Hz	1/3 Octave
50	-
63	-
80	-
100	68.6
125	63.8
160	65.3
200	66
250	63.5
315	59.3
400	56.1
500	55.6
630	52.8
800	50.9
1000	49.5
1250	47
1600	45.1
2000	42.1
2500	36.9
3150	29
4000	-
5000	-



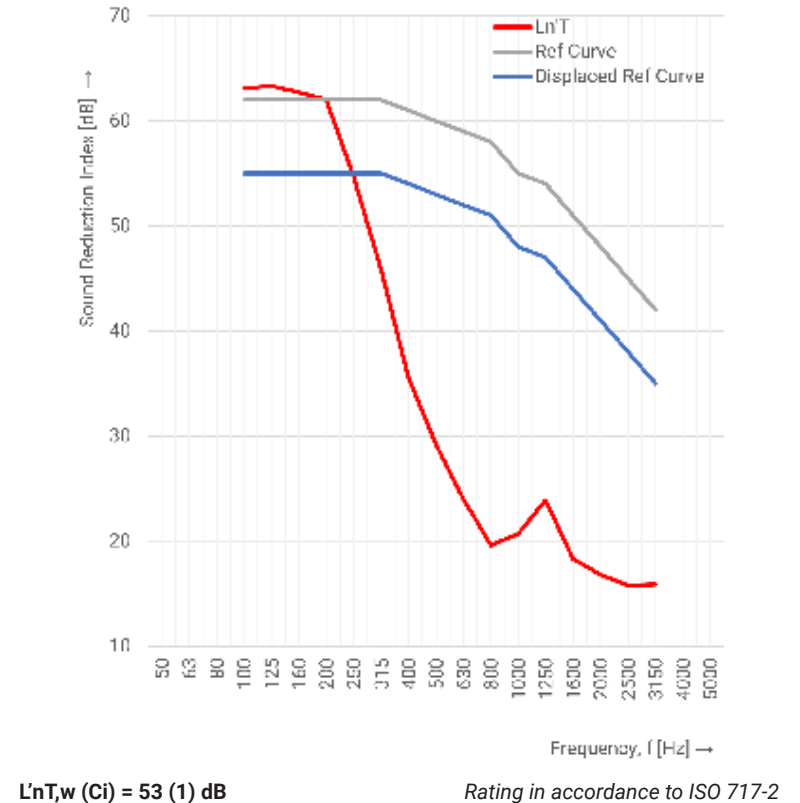
### Treated Ceiling Impact Results

Weighted Normalized Impact Sound Pressure Level according to ISO 717-2  
 Source Room Volume: 44 m³ | Receiving Room Volume: 30 m³

### Additional Flooring System:

MuteMat® OSF 750-10 (7.5 kg/m²)

Hz	1/3 Octave
50	-
63	-
80	-
100	63.1
125	63.3
160	62.7
200	62
250	54.7
315	45.8
400	35.5
500	29.2
630	24
800	19.6
1000	20.7
1250	23.9
1600	18.3
2000	16.8
2500	15.8
3150	15.9
4000	-
5000	-



# MuteClip® Performance Data

## Timber Ceiling | MuteClip® Double, Versafloor® and MuteMat OSF 750-10

### Treated Ceiling Airborne Results

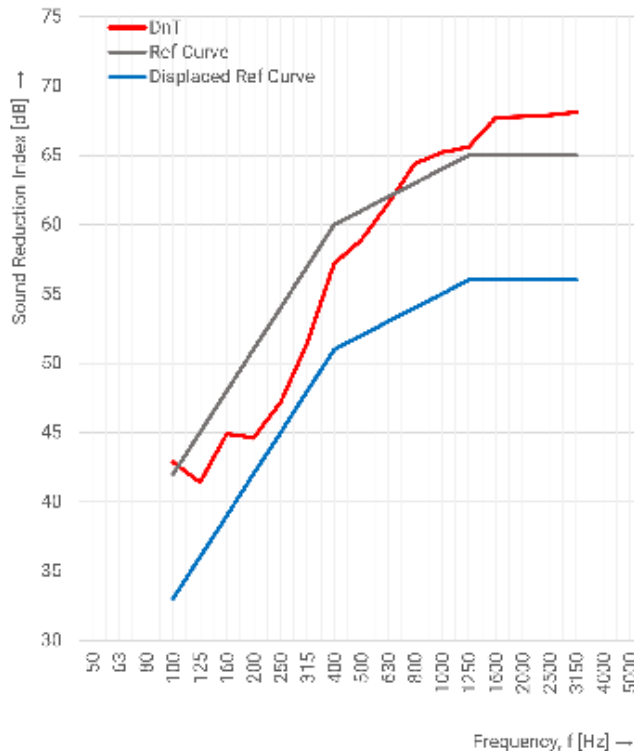
Weighted Standardized Level Difference according to ISO 717-1

Source Room Volume: 44 m³ | Receiving Room Volume: 30 m³

### Ceiling Build-Up:

22mm Versafloor	(25 kg/m²)	Tecsound SY70	(7 kg/m³)
Isolation Strip P8		15mm Acoustic Plasterboard	(12.5 kg/m²)
220mm Timber Joist			
150mm Mineral Wool   60 kg/m³	(9 kg/m²)		
MuteClip® and MuteClip® Channel			
15mm Acoustic Plasterboard	(12.5 kg/m²)		

Hz	1/3 Octave
50	-
63	-
80	-
100	42.9
125	41.4
160	44.9
200	44.6
250	47.2
315	51.5
400	57.2
500	58.9
630	61.5
800	64.4
1000	65.2
1250	65.6
1600	67.7
2000	67.8
2500	67.9
3150	68.1
4000	-
5000	-



DnT,w (C;Ctr) = 61 (-2;-7) dB

Rating in accordance to ISO 717-1



# MuteClip® Performance Data

## Masonry Wall | MuteClip® Stud Double Plus

### Treated Wall Airborne Results

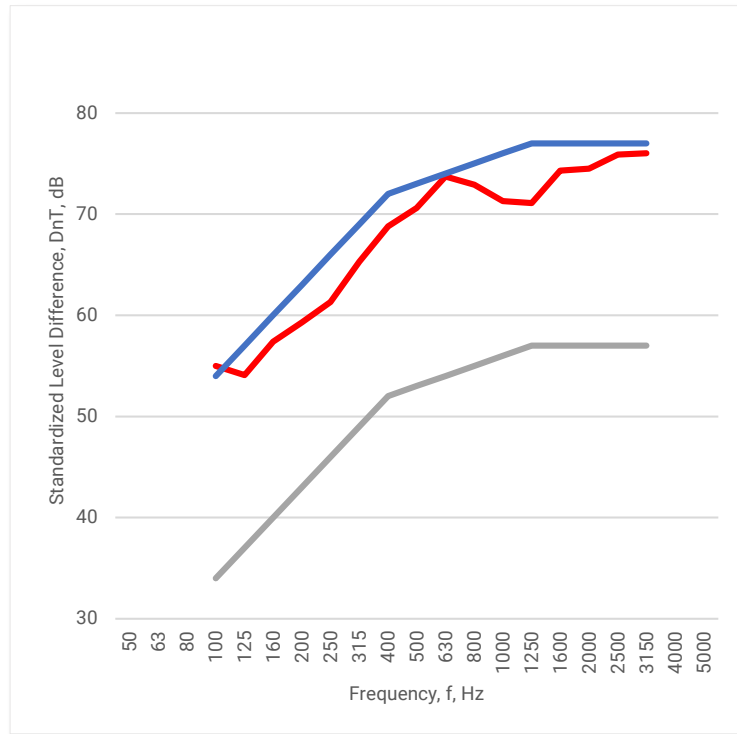
Weighted Standardized Level Difference according to ISO 717-1

Source Room Volume: 135m³ | Receiving Room Volume: 39m³

### Wall Build-Up:

3mm Skim  
 15mm Acoustic Board (12.5 kg/m²) | 100mm Mineral Wool | 60 kg/m³ (6 kg/m²)  
 Tecsound SY70 (7 kg/m²) | Original Wall Make-Up  
 19mm SoundPlank (15 kg/m²)  
 MuteClip® and MuteClip® Channel  
 50mm Battens at 600mm Centres

Hz	1/3 Octave
50	-
63	-
80	-
100	55.0
125	54.1
160	57.4
200	59.3
250	61.3
315	65.3
400	68.8
500	70.6
630	73.7
800	72.9
1000	71.3
1250	71.1
1600	74.3
2000	74.5
2500	75.9
3150	76
4000	-
5000	-



**DnT,w (C;Ctr) = 72 (-2;-5) dB**

Rating in accordance to ISO 717-1

# MuteClip® Performance Data

## Masonry Wall | MuteClip® Double

### Treated Wall Airborne Results

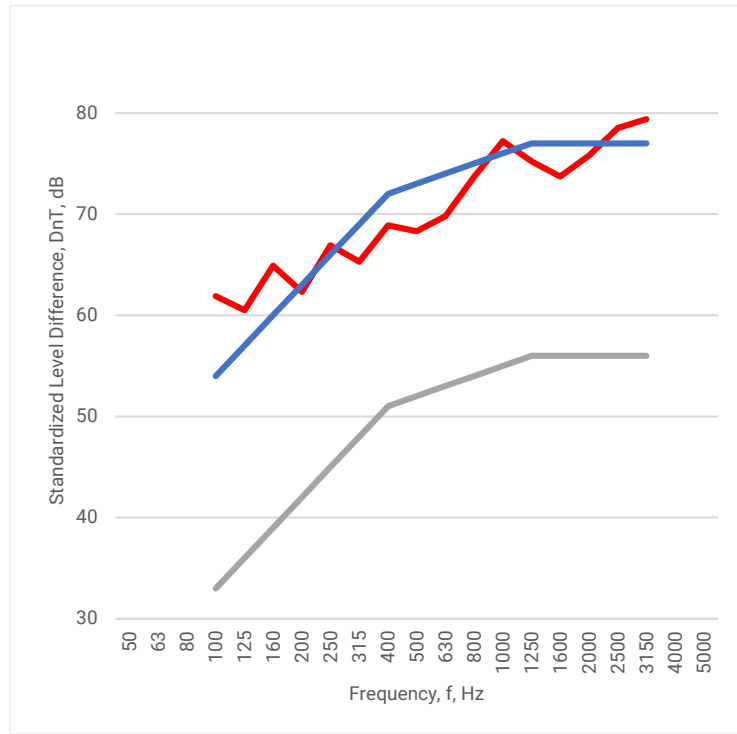
Weighted Standardized Level Difference according to ISO 717-1

Receiving Room Volume: 20m³

### Wall Build-Up:

3mm Skim		100mm Concrete Block	(322 kg/m²)
15mm Acoustic Board	(12.5 kg/m²)	100mm Air Cavity	
Tecsound SY70	(7 kg/m²)	100mm Concrete Block	(322 kg/m²)
15mm Acoustic Board	(12.5 kg/m²)		
MuteClip® and MuteClip® Channel			
30mm Mineral Wool   60 kg/m³	(1.8 kg/m²)		

Hz	1/3 Octave
50	-
63	-
80	-
100	61.9
125	60.5
160	64.9
200	62.3
250	66.9
315	65.3
400	68.9
500	68.3
630	69.8
800	73.7
1000	77.2
1250	75.2
1600	73.7
2000	75.8
2500	78.5
3150	79.4
4000	-
5000	-



**DnT,w (C;Ctr) = 73 (-1;-3) dB**

Rating in accordance to ISO 717-1

# MuteClip® Performance Data

## Timber Wall | MuteClip® Double

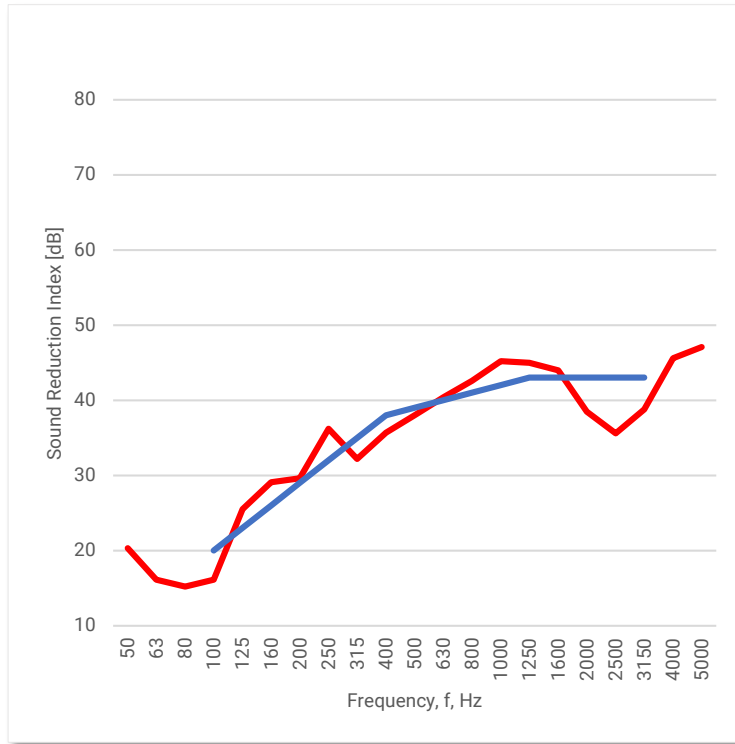
### Untreated Wall Airborne Results

Weighted Standardized Level Difference according to ISO 717-1  
 Source Room Volume: 136m³ | Receiving Room Volume : 220 m³

### Wall Build-Up:

15mm Acoustic Board (12.5 kg/m²)  
 95mm Stud Wall (Hollow)  
 15mm Acoustic Board (12.5 kg/m²)

Hz	1/3 Octave
50	20.3
63	16.1
80	15.2
100	16.1
125	25.5
160	29.1
200	29.6
250	36.2
315	32.2
400	35.7
500	38.0
630	40.4
800	42.6
1000	45.2
1250	45.0
1600	44.0
2000	38.5
2500	35.6
3150	38.8
4000	45.6
5000	47.1



Rw (C;Ctr) = 39 (-1;-5) dB

Rating in accordance to ISO 717-1

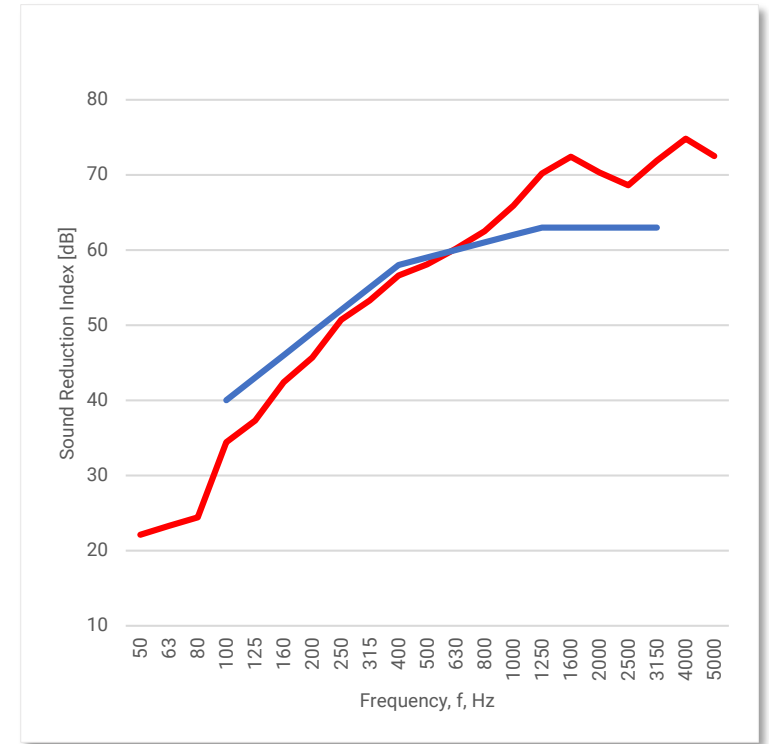
### Treated Wall Airborne Results

Weighted Standardized Level Difference according to ISO 717-1  
 Source Room Volume: 136m³ | Receiving Room Volume : 220 m³

### Additional Wall Build-Up:

15mm Acoustic Board (12.5 kg/m²) | 15mm Acoustic Board (12.5 kg/m²)  
 Tecsound SY70 (7 kg/m²)  
 15mm Acoustic Board (12.5 kg/m²)  
 MuteClip® and MuteClip® Channel  
 95mm Stud Wall  
 75mm Mineral Wool | 60 kg/m³ (4.5 kg/m²)

Hz	1/3 Octave
50	22.1
63	23.3
80	24.4
100	34.4
125	37.3
160	42.4
200	45.7
250	50.7
315	53.3
400	56.6
500	58.1
630	60.2
800	62.5
1000	65.9
1250	70.2
1600	72.4
2000	70.3
2500	68.6
3150	71.9
4000	74.8
5000	72.5



Rw (C;Ctr) = 59 (-2;-8) dB

Rating in accordance to ISO 717-1

# MuteClip® Performance Data

## Timber Wall | MuteClip® Single

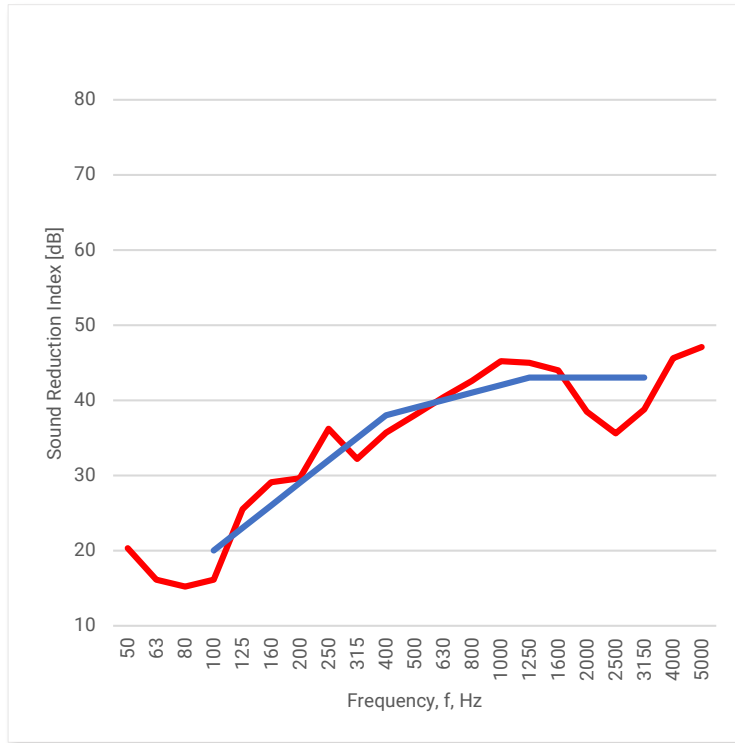
### Untreated Wall Airborne Results

Weighted Standardized Level Difference according to ISO 717-1  
 Source Room Volume: 136m³ | Receiving Room Volume : 220 m³

### Wall Build-Up:

15mm Acoustic Board (12.5 kg/m²)  
 95mm Stud Wall (Hollow)  
 15mm Acoustic Board (12.5 kg/m²)

Hz	1/3 Octave
50	20.3
63	16.1
80	15.2
100	16.1
125	25.5
160	29.1
200	29.6
250	36.2
315	32.2
400	35.7
500	38.0
630	40.4
800	42.6
1000	45.2
1250	45.0
1600	44.0
2000	38.5
2500	35.6
3150	38.8
4000	45.6
5000	47.1



Rw (C;Ctr) = 39 (-1;-5) dB

Rating in accordance to ISO 717-1

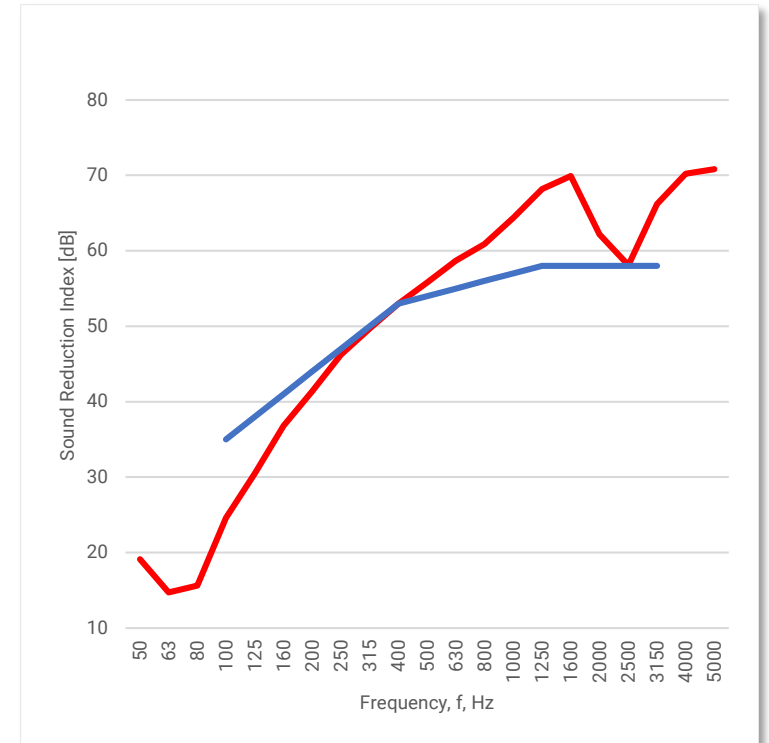
### Treated Wall Airborne Results

Weighted Standardized Level Difference according to ISO 717-1  
 Source Room Volume: 136m³ | Receiving Room Volume : 220 m³

### Additional Wall Build-Up:

15mm Acoustic Board (12.5 kg/m²)  
 MuteClip® and MuteClip® Channel  
 95mm Stud Wall  
 75mm Mineral Wool | 60 kg/m³ (4.5 kg/m²)  
 15mm Acoustic Board (12.5 kg/m²)

Hz	1/3 Octave
50	19.1
63	14.7
80	15.6
100	24.6
125	30.5
160	36.8
200	41.4
250	46.2
315	49.7
400	53
500	55.8
630	58.7
800	60.9
1000	64.4
1250	68.2
1600	69.9
2000	62.2
2500	58.1
3150	66.2
4000	70.2
5000	70.8



Rw (C;Ctr) = 54 (-4;-11) dB

Rating in accordance to ISO 717-1