

## Annex H Sound absorption area (informative)

The tables below give an estimate of the amount of class A or class C absorption material required in spaces of various sizes, as a percentage in relation to the floor area of the space. Using these tables, it is possible to estimate the amount of absorption in simple, mainly rectangular spaces. The table presents the amount of absorption material based on the height of the space and the reverberation time stipulated by the norm for the space in question. The surface area of the absorption material, in square metres, is obtained by multiplying its relative quantity (presented as a percentage in the table) by the floor area of the space.

Estimated amount of class A absorption material, as a percentage of the surface area of the space with varying heights and reverberation times.

Reverberation time (s)	Ceiling height (m)									
	2,4 m	2,7 m	3 m	3,5 m	4 m	5 m	6 m	8 m	10 m	12 m
0,35 s	110	130	140	170	-	-	-	-	-	-
0,4 s	100	110	120	150	170	-	-	-	-	-
0,45 s	80	100	110	130	150	-	-	-	-	-
0,5 s	70	80	100	110	130	170	-	-	-	-
0,55 s	60	70	90	100	120	150	-	-	-	-
0,6 s	60	70	80	90	110	140	-	-	-	-
0,7 s	50	50	60	80	90	120	-	-	-	-
0,8 s	40	50	50	60	80	100	-	-	-	-
0,9 s	30	40	50	60	70	90	110	-	-	-
1,0 s	30	30	40	50	60	80	100	-	-	-
1,1 s	20	30	30	40	50	70	90	120	-	-
1,3 s	20	20	30	30	40	50	70	100	130	-
1,5 s	-	20	20	30	30	50	60	80	110	130
1,7 s	-	-	20	20	30	40	50	70	90	120
1,9 s	-	-	-	20	20	30	40	60	80	100
2,2 s	-	-	-	-	20	30	30	50	70	90

Estimated amount of class C absorption material, as a percentage of the surface area of the space with varying heights and reverberation times.

Reverberation time (s)	Ceiling height (m)									
	2,4 m	2,7 m	3 m	3,5 m	4 m	5 m	6 m	8 m	10 m	12 m
<b>0,35 s</b>	170	200	220	260	-	-	-	-	-	-
<b>0,4 s</b>	150	170	190	230	260	-	-	-	-	-
<b>0,45 s</b>	130	150	170	200	230	-	-	-	-	-
<b>0,5 s</b>	110	130	150	180	210	260	-	-	-	-
<b>0,55 s</b>	100	120	130	160	180	240	-	-	-	-
<b>0,6 s</b>	90	100	120	140	170	220	-	-	-	-
<b>0,7 s</b>	70	80	100	120	140	180	-	-	-	-
<b>0,8 s</b>	60	70	80	100	120	150	-	-	-	-
<b>0,9 s</b>	50	60	70	90	100	130	170	-	-	-
<b>1,0 s</b>	40	40	60	70	90	120	150	-	-	-
<b>1,1 s</b>	40	40	50	70	80	100	130	180	-	-
<b>1,3 s</b>	30	30	40	50	60	80	110	150	200	-
<b>1,5 s</b>	-	30	30	40	50	70	90	130	170	210
<b>1,7 s</b>	-	-	20	30	40	60	80	110	140	180
<b>1,9 s</b>	-	-	-	30	30	50	60	100	130	160
<b>2,2 s</b>	-	-	-	-	30	40	50	80	100	130