DREES & SOMMER

ROOM ACOUSTICS

DR BECKMANN GROUP
OFFICE MANCHESTER

Ralf Buchholz, 09.07.2026

ROOM ACOUSTICS

Materials & Product Data

Acoustic Ceiling Panels



Quality:
Knauf, Heradesign Fine

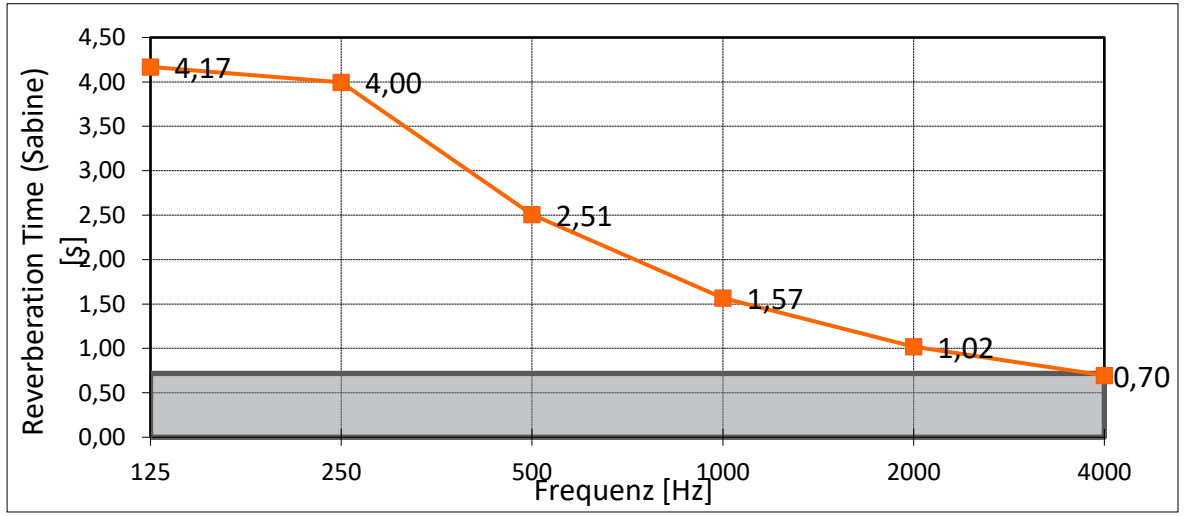
sound absorption

	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz
α_p	0,15	0,55	0,85	0,68	0,65	0,85

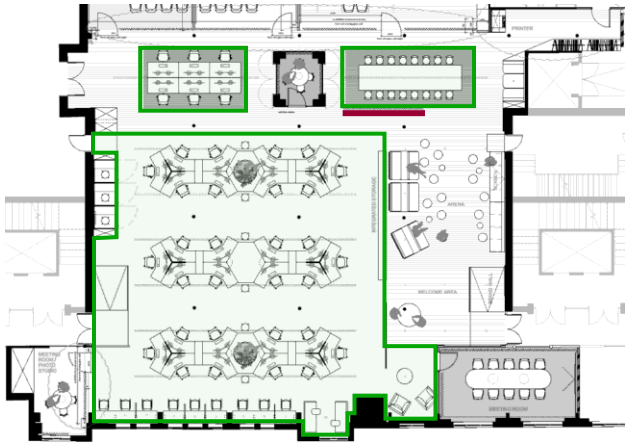
ROOM ACOUSTICS

Calculation results without acoustic ceiling | 8th Floor

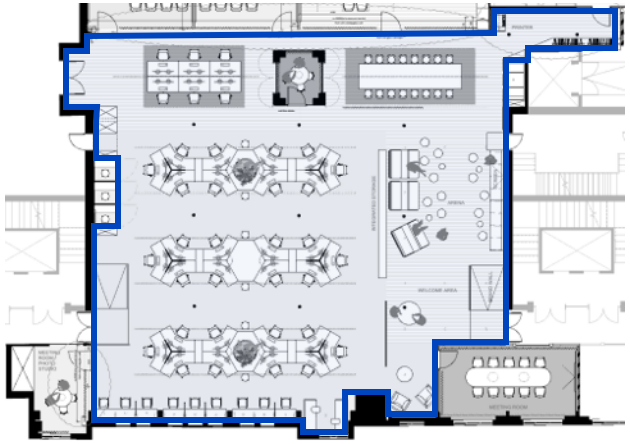
Space Type:	Work area
Room Geometry:	A = 421,3 m² | m. h. = 3,0 m | V = 1289 m³
Requeriment:	**DIN 18041 – B4 – work area**
	$T_{required}$ = 0,72 sec.
Calculated Reverberation Time:	**T_{calc}= 2,33 sec.**
Measures:	No acoustical measures (non absorbing ceiling) Wooden/Laminate Floor BDN-03/04 Carpet Floor Curtain
Additional:	16 upholstered chairs, 63 persons



Flooring Plan



Ceiling Plan

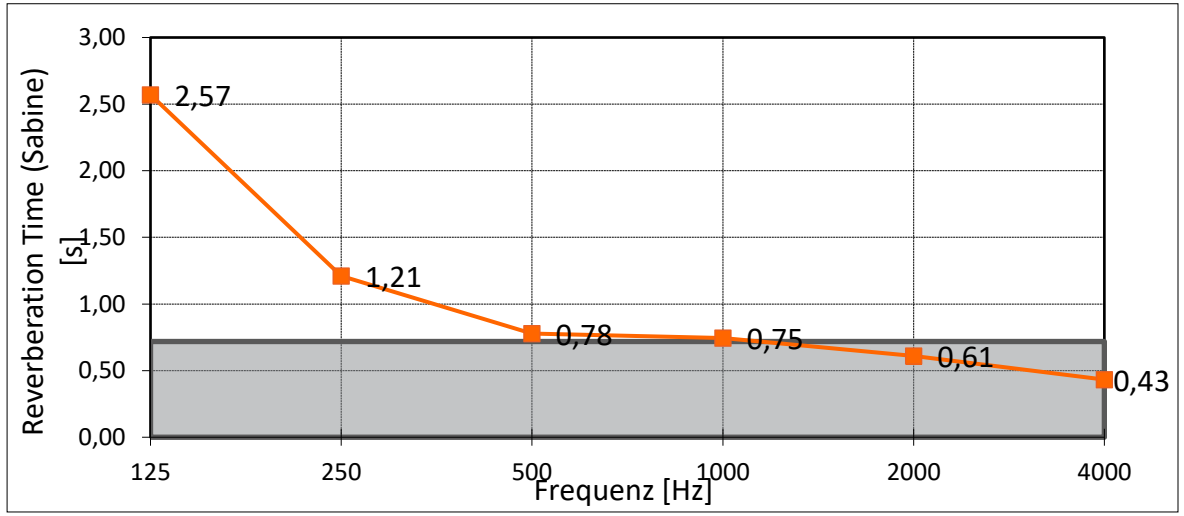


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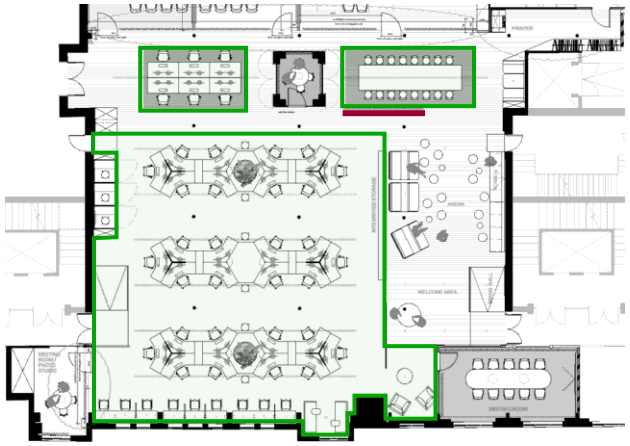
ROOM ACOUSTICS

Calculation results with acoustic ceiling | 8th Floor

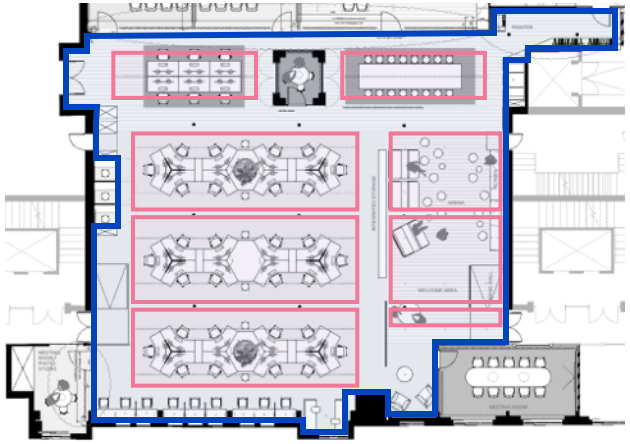
Space Type:	Work area
Room Geometry:	A = 421,3 m² | m. h. = 3,0 m | V = 1289 m³
Requeriment:	**DIN 18041 – B4 – work area**
	$T_{required}$ = 0,72 sec.
Calculated Reverberation Time:	**T_{calc}= 1,06 sec.**
Measures:	**Acoustic Ceiling Panels** Wooden/Laminate Floor BDN-03/04 Carpet Floor Curtain
Additional:	16 upholstered chairs, 63 persons



Flooring Plan



Ceiling Plan



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UNITING OPPOSITES TO CREATE A WORLD WE WANT TO LIVE IN

Drees & Sommer