

Standard impact sound according to DIN EN ISO 10140-3

customer	College fa Wissenschafte	UUT	Renewable resources - wood-beamed ceilings
Floor covering + TS-insulation weighing down soffit	50 mm cement screed, m '= 120 kg / m² 30 WF STEICO mm therm laid in staggered, CP2, SD 30, m '= 5.2 kg / m² 2 x 30 mm Fermacell honeycomb bed in Fermacell screed honeycomb, m '= 89.3 kg / m 22 mm chipboard screws (5 x 60), e s = 285 mm, m '= 13.3 kg / m²; 220 mm beams 80/220, e = 625 mm; 200 mm Thermo jute 100, ρ = 34 kg / m³		
under Blanket	140 mm suspension height, hangers "AMC acoustic Super T-60 Syl 30 Type A" (5x6 pieces) screwed onto beams, e = 625 mm; Kreuzlattung from CD profiles clipped, e = 900/400 mm; ; 2 x 12.5 mm screwed GKF, a <510/170 mm; m '= 2 x 10.3 kg / m		
total thickness	x0 mm		
grammage	? kg / m²		
tester	Bacher		

comment	9.9 ° C; 60.9%; 955.4 hPa; h = 2943 mm, TZ 30/26 / xh		
order number	16000214	No measuring sheet. X37	Inspection date 2018-01-10
Testing: DIN EN ISO 10140	Prüfschall: Pink Noise		Receive filter: third octave filters
A reference surface o = 10 m²	volume V e: 58.4 m³		Instrument: Nortronic 830

L n, w	30 dB
L n, w, *	30.0 dB
max Dev.	10.4 dB / 100 Hz
total	31.8 dB

norm L n, sum,	DIN EN ISO 717
100-2500	46.6 dB 2
C l, 100-2500	dB
L n, sum, 50-2500	54.6 dB
C l, 50-2500	10 dB

f [Hz]	L n [dB]	50 63	L HW - D	L b
80 100	25.4	200		
250 315	40.6	500		
	46.7			
	42.4			
	40.1			
	39.1			
	38.0			
	32.2			
	31.1			
	22.9			
	16.9	x	x	
630	14.2	x	x	
800	10.5	x	x	
1000	8.8	x	x	
1250	6.0			x
1600	4.4			2.6
2000	4.2			4.0
2500	5.3			4.2
3150	5.0			5.0
4000	5.1			6.1
5000	5.5			6.9
corrected x value <=> 99.9 <=> correction 3 dB				

