

Sound absorption values – Walls

Constructions with Troldtekt panels

Tested according to DS/ISO 354

TCH = Total Construction Height

Troldtekt installed on concrete

Constructions with Troldtekt and mineral wool installed directly on concrete		Frequency [Hz]						Specifications			Date	Institute
		125	250	500	1000	2000	4000	α_w	NRC	Class		
	Concrete 95 mm mineral wool 30 kg/m ³ 25 mm Troldtekt TCH 120 mm											
	Fine structure	0.55	1.00	1.00	0.90	0.80	1.00	0.90	1.00	A	April 2017	SRL
	Ultrafine structure	0.55	1.00	1.00	0.95	0.90	1.00	0.95	1.05	A	April 2017	SRL
	Extreme fine structure	0.55	1.00	1.00	0.95	0.90	1.00	0.95	1.00	A	April 2017	SRL
	Concrete 95 mm mineral wool 30 kg/m ³ 35 mm Troldtekt TCH 130 mm											
	Fine structure*	0.60	1.00	1.00	0.85	0.95	0.95	0.95	0.95	A	2015	Peutz
	Ultrafine structure	0.65	1.00	1.00	0.95	1.00	1.00	1.00	1.05	A	June 2018	SRL
	Extreme fine structure	0.60	1.00	1.00	0.95	1.00	1.00	1.00	1.05	A	June 2017	SRL
	Concrete 45 mm mineral wool 30 kg/m ³ 25 mm Troldtekt TCH 70 mm											
	Fine structure	0.25	0.85	1.00	0.90	0.95	1.00	0.90	0.95	A	April 2017	SRL
	Ultrafine structure	0.25	0.75	1.00	1.00	0.90	1.00	0.95	0.95	A	April 2017	SRL
	Extreme fine structure	0.25	0.80	1.00	0.95	0.85	1.00	0.95	0.95	A	April 2017	SRL

*95 mm mineral wool 33 kg/m³

Constructions with Troldekt and mineral wool installed directly on concrete

Frequency [Hz]						
125	250	500	1000	2000	4000	

Specifications		
α_w	NRC	Class

Date	Institute
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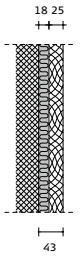
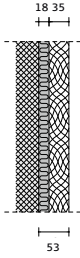
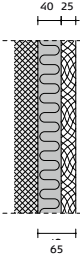
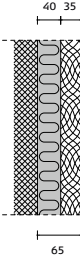
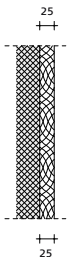
	Concrete 45 mm mineral wool 30 kg/m ³ 35 mm Troldekt TCH 80 mm											
	Fine structure	0.30	0.85	1.00	0.85	0.90	1.00	0.90	0.95	A	June 2017	SRL
	Ultrafine structure	0.30	0.85	1.00	0.95	0.90	1.00	0.95	1.00	A	June 2017	SRL
	Extreme fine structure	0.30	0.85	1.00	0.95	0.95	1.00	1.00	0.95	A	June 2017	SRL

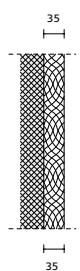
	Concrete 30 mm mineral wool 70 kg/m ³ 25 mm Troldekt TCH 55 mm											
	Fine structure	0.20	0.70	1.00	1.00	0.85	1.00	0.90	0.95	A	April 2017	SRL
	Ultrafine structure	0.20	0.65	1.00	1.00	1.00	1.00	0.95	0.95	A	April 2017	SRL
	Extreme fine structure	0.20	0.65	1.00	1.00	0.90	1.00	0.90	0.95	A	April 2017	SRL

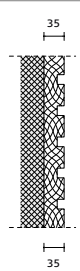
	Concrete 50 mm mineral wool 90 kg/m ³ 25 mm Troldekt TCH 75 mm											
	Fine structure	0.35	1.00	1.00	1.00	0.95	1.00	1.00	1.10	A	April 2017	SRL
	Ultrafine structure	0.35	1.00	1.00	1.00	1.00	1.00	1.00	1.10	A	April 2017	SRL
	Extreme fine structure	0.35	1.00	1.00	1.00	0.95	1.00	1.00	1.10	A	April 2017	SRL

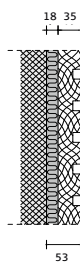
	Concrete 30 mm mineral wool 70 kg/m ³ 35 mm Troldekt TCH 65 mm											
	Fine structure	0.20	0.70	1.00	1.00	0.90	1.00	0.95	0.95	A	June 2017	SRL
	Ultrafine structure	0.25	0.75	1.00	1.00	1.00	1.00	1.00	1.05	A	June 2017	SRL
	Extreme fine structure	0.25	0.75	1.00	1.00	0.90	1.00	0.95	1.00	A	June 2017	SRL

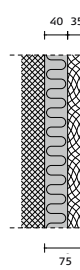
	Concrete 50 mm mineral wool 90 kg/m ³ 35 mm Troldekt TCH 85 mm											
	Fine structure	0.40	1.00	1.00	0.95	0.95	1.00	1.00	1.05	A	June 2017	SRL
	Ultrafine structure	0.40	1.00	1.00	1.00	1.00	1.00	1.00	1.05	A	June 2017	SRL
	Extreme fine structure	0.40	1.00	1.00	1.00	0.95	1.00	1.00	1.05	A	June 2017	SRL

Constructions with Troldekt Plus installed directly on concrete		Frequency [Hz]						Specifications			Date	Institute
		125	250	500	1000	2000	4000	α_w	NRC	Class		
	Concrete 25+18 mm Troldekt Plus: - 25 mm Troldekt - 18 mm mineral wool 70 kg/m ³ TCH 43											
	Fine structure	0.15	0.40	1.00	1.00	0.85	1.00	0.70	0.80	C	April 2017	SRL
	Ultrafine structure	0.15	0.40	0.90	1.00	0.90	1.00	0.70	0.80	C	April 2017	SRL
	Extreme fine structure	0.15	0.40	0.90	1.00	0.90	1.00	0.70	0.80	C	April 2017	SRL
	Concrete 35+18 mm Troldekt Plus: - 35 mm Troldekt - 18 mm mineral wool 70 kg/m ³ TCH 53 mm											
	Fine structure	0.20	0.45	1.00	1.00	0.85	1.00	0.75	0.85	C	June 2017	SRL
	Ultrafine structure	0.20	0.45	1.00	1.00	0.90	1.00	0.75	0.85	C	June 2017	SRL
	Extreme fine structure	0.15	0.45	1.00	1.00	0.90	1.00	0.75	0.85	C	June 2017	SRL
	Concrete 25+40 mm Troldekt Plus: - 25 mm Troldekt - 40 mm mineral wool 70 kg/m ³ TCH 65 mm											
	Fine structure	0.30	0.95	1.00	1.00	0.95	1.00	1.00	1.05	A	April 2017	SRL
	Ultrafine structure	0.30	0.85	1.00	1.00	1.00	1.00	1.00	1.05	A	April 2017	SRL
	Extreme fine structure	0.25	0.85	1.00	1.00	1.00	1.00	1.00	1.05	A	April 2017	SRL
	Concrete 35+40 mm Troldekt Plus: - 35 mm Troldekt - 40 mm mineral wool 70 kg/m ³ TCH 75 mm											
	Fine structure	0.30	0.90	1.00	0.95	0.95	1.00	1.00	1.00	A	June 2017	SRL
	Ultrafine structure	0.30	0.90	1.00	1.00	0.95	1.00	1.00	1.00	A	June 2017	SRL
	Extreme fine structure	0.35	0.90	1.00	1.00	1.00	1.00	1.00	1.05	A	June 2017	SRL
	Concrete 25 mm Troldekt TCH 25 mm											
	Fine structure	0.10	0.15	0.30	0.65	0.95	0.85	0.35	0.55	D	April 2017	SRL
	Ultrafine structure	0.10	0.15	0.30	0.60	0.90	0.80	0.35	0.50	D	April 2017	SRL
	Extreme fine structure	0.10	0.15	0.30	0.60	0.90	0.70	0.35	0.50	D	April 2017	SRL

Constructions with Troldekt installed directly on concrete		Frequency [Hz]						Specifications			Date	Institute
		125	250	500	1000	2000	4000	α_w	NRC	Class		
	Concrete 35 mm Troldekt											
	TCH 35 mm											
	Fine structure	0.10	0.25	0.45	0.85	0.85	0.90	0.50	0.60	D	June 2017	SRL
	Ultrafine structure	0.10	0.25	0.45	0.80	0.90	0.90	0.50	0.60	D	June 2017	SRL
	Extreme fine structure	0.10	0.25	0.50	0.85	0.90	0.90	0.50	0.60	D	June 2017	SRL

Constructions with Troldekt Design installed directly on concrete		Frequency [Hz]						Specifications			Date	Institute
		125	250	500	1000	2000	4000	α_w	NRC	Class		
	Concrete 35 mm Troldekt Line											
	TCH 35 mm											
	Ultrafine structure	0.10	0.20	0.40	0.60	0.80	0.80	0.45	0.50	D	June 2018	SRL

Constructions with Troldekt Design Plus installed directly on concrete		Frequency [Hz]						Specifications			Date	Institute
		125	250	500	1000	2000	4000	α_w	NRC	Class		
	Concrete 18 mm mineral wool 70 kg/m3 35 mm Troldekt Line											
	TCH 53 mm											
	Ultrafine structure	0.15	0.40	0.90	1.00	0.95	1.00	0.70	0.80	C	June 2018	SRL

	Concrete 40 mm mineral wool 70 kg/m3 35 mm Troldekt Line											
	TCH 75 mm											
	Ultrafine structure	0.30	0.85	1.00	1.00	0.95	1.00	1.00	1.05	A	June 2018	SRL