



Acoustically-Tested Mass Timber Assemblies

Following is a list of mass timber assemblies that have been acoustically tested as of January 23, 2019. Sources are noted at the end of this document. For free technical assistance on any questions related to the acoustical design of mass timber assemblies, or free technical assistance related to any aspect of the design, engineering or construction of a commercial or multi-family wood building in the U.S., email help@woodworks.org or contact the WoodWorks Regional Director nearest you: <http://www.woodworks.org/project-assistance>

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Table 1: CLT Floor Assemblies with Concrete/Gypsum Topping, Ceiling Side Exposed

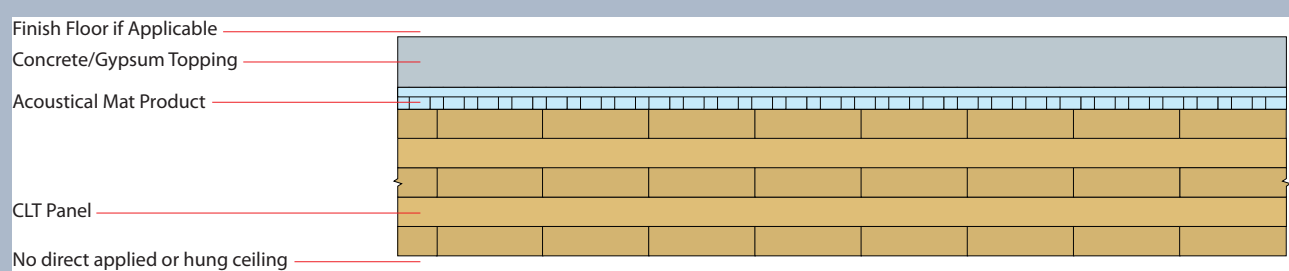
									
CLT Panel	Concrete/Gypsum Topping	Acoustical Mat Product Between CLT and Topping	Finish Floor	STC ¹	IIC ¹	Source			
CLT 5-ply (6.875")	1-1/2" Gyp-Crete®	Maxxon Acousti-Mat® 3/4	None	47 ² ASTC	47 ² AIIIC	1			
			LVT	-	49 ² AIIIC				
			Carpet + Pad	-	75 ² AIIIC				
			LVT on Acousti-Top®	-	52 ² AIIIC				
			Eng Wood on Acousti-Top®	-	51 ² AIIIC				
		Maxxon Acousti-Mat® ¾ Premium	None	49 ² ASTC	45 ² AIIIC				
			LVT	-	47 ² AIIIC				
	1-1/2" Levelrock® Brand 2500	USG SAM N25 Ultra	None	None	45 ⁶	39 ⁶	15		
				LVT	48 ⁶	47 ⁶	16		
				LVT Plus	48 ⁶	49 ⁶	58		
				Eng Wood	47 ⁶	47 ⁶	59		
				Carpet + Pad	45 ⁶	67 ⁶	60		
				Ceramic Tile	50 ⁶	46 ⁶	61		
				Soprema® Insonomat	None	None	45 ⁶	42 ⁶	15
						LVT	48 ⁶	44 ⁶	16
						LVT Plus	48 ⁶	47 ⁶	58
		Eng Wood	47 ⁶			45 ⁶	59		
		Carpet + Pad	45 ⁶			71 ⁶	60		
		Ceramic Tile	50 ⁶			46 ⁶	61		
		USG SAM N75 Ultra	None	None	45 ⁶	38 ⁶	15		
				LVT	48 ⁶	47 ⁶	16		
LVT Plus				48 ⁶	49 ⁶	58			
Eng Wood				47 ⁶	49 ⁶	59			

Table 1 Continued: CLT Floor Assemblies with Concrete/Gypsum Topping, Ceiling Side Exposed

CLT Panel	Concrete/Gypsum Topping	Acoustical Mat Product Between CLT and Topping	Finish Floor	STC ¹	IIC ¹	Source				
CLT 5-ply (6.875")	1-1/2" Levelrock® Brand 2500	USG SAM N75 Ultra	Carpet + Pad	45 ⁶	65 ⁶	60				
			Ceramic Tile	50 ⁶	49 ⁶	61				
		USG SAM N40 Ultra	None	45 ⁶	40 ⁶	15				
			LVT	48 ⁶	45 ⁶	16				
			LVT Plus	48 ⁶	47 ⁶	58				
			Eng Wood	47 ⁶	47 ⁶	59				
			Carpet + Pad	45 ⁶	67 ⁶	60				
			Ceramic Tile	50 ⁶	47 ⁶	61				
	1-1/2" gypsum	0.35" (9mm) closed-cell foam	None	50	41	20				
	1-1/2" concrete	None	None	49	28	20				
				0.35" (9mm) closed-cell foam	53		36			
				0.5" wood fiberboard	52		35			
				0.75" recycled fabric felt	59		42			
				0.5" rubber nuggets on foil	53		46			
				0.315" (8 mm) shredded rubber mat	52		38			
				0.67" (17 mm) shredded rubber mat	54		44			
		0.39" (10 mm) Tar Boards	None	None	54	36	68			
					Eng Wood on 2 mm closed cell foam	53		47		
					1/2" Insonomat	56		48		
					Eng Wood on 2 mm closed cell foam	55		51		
					0.35" (9 mm) Owens Corning QuietZone closed cell foam	None		None	54	39
									Eng Wood on 2 mm closed cell foam	52
					2" Gyp-Crete®	Maxxon Acousti-Mat® 3/8 Premium		None	52	38
	Carpet	50	66							
	LVT	52	44							
	Linoleum sheet flooring	51	48							
	11 mm Maxxon Enkasonic HP	None	None	51		53				
				LVT		52	51			

Table 1 Continued: CLT Floor Assemblies with Concrete/Gypsum Topping, Ceiling Side Exposed

CLT Panel	Concrete/Gypsum Topping	Acoustical Mat Product Between CLT and Topping	Finish Floor	STC ¹	IIC ¹	Source		
CLT 5-ply (6.875")	2" Levelrock® Brand 2500	Pliteq GenieMat™ FF25	LVT on GenieMat RST05	53	51	2		
			Eng Wood on GenieMat RST02	53	49	31		
		USG SRB on USG SAM N25 Ultra	None	51 ⁶	42 ⁶	62		
			LVT	51 ⁶	47 ⁶	63		
			LVT Plus	51 ⁶	51 ⁶	14		
			Eng Wood	50 ⁶	48 ⁶	64		
			Carpet + Pad	50 ⁶	66 ⁶	65		
			Ceramic Tile	52 ⁶	48 ⁶	66		
		USG SAM N25 Ultra on USG SAM N25	None	51 ⁶	40 ⁶	62		
			LVT	51 ⁶	47 ⁶	63		
			LVT Plus	51 ⁶	48 ⁶	14		
			Eng Wood	50 ⁶	49 ⁶	64		
			Carpet + Pad	50 ⁶	65 ⁶	65		
		USG SAM N25 on USG SAM N25 Ultra	Ceramic Tile	52 ⁶	49 ⁶	66		
			None	51 ⁶	44 ⁶	62		
			LVT	51 ⁶	49 ⁶	63		
			LVT Plus	51 ⁶	50 ⁶	14		
			Eng Wood	50 ⁶	49 ⁶	64		
		USG SAM N25 Ultra	Carpet + Pad	50 ⁶	64 ⁶	65		
			Ceramic Tile	52 ⁶	49 ⁶	66		
			None	51 ⁶	42 ⁶	62		
			LVT	51 ⁶	46 ⁶	63		
			LVT Plus	51 ⁶	48 ⁶	14		
			Eng Wood	50 ⁶	47 ⁶	64		
			Carpet + Pad	50 ⁶	64 ⁶	65		
			Ceramic Tile	52 ⁶	47 ⁶	66		
			2" concrete	Rothoblaas Silent Floor EVO + 1.57" mineral wool + 4.7" EPS lightened screed + Rothoblaas Barrier 100	None	57 ⁹	60 ⁹	12
		2-3/8" concrete	Rothoblaas Barrier 100 + 1.18" mineral wool + 3.15" compact gravel fill w/cement + Rothoblaas Slient Floor ⁷	None	53 ⁹	48 ⁹	12	

Table 1 Continued: CLT Floor Assemblies with Concrete/Gypsum Topping, Ceiling Side Exposed

CLT Panel	Concrete/Gypsum Topping	Acoustical Mat Product Between CLT and Topping	Finish Floor	STC ¹	IIC ¹	Source
CLT 5-ply (6.875")	2-1/2" Gyp-Crete®	Maxxon Acousti-Mat® ¾ Premium + Acousti-Mat® SBR (3/8")	None	51 ² ASTC	48 ² AIC	1
			LVT	-	53 ² AIC	
			LVT on Acousti-Top®	-	58 ² AIC	
			Eng Wood	-	53 ² AIC	
			Eng Wood on Acousti-Top®	-	56 ² AIC	
			Carpet + Pad	-	82 ² AIC	
	3" concrete	2" Kinetics® Noise Control Roll-out Isolation Material	None	58	55	22
	4" concrete	Pliteq GenieMat™ FF16 (FF10 + FF06) Pliteq GenieMat™ FF20 (FF10 + FF10) Pliteq GenieMat™ FF23 (FF17 + FF06) Pliteq GenieMat™ FF25 Pliteq GenieMat™ FF31 (FF25 + FF06) Pliteq GenieMat™ FF50 (FF25 + FF25)	None	56	50	32
				57	51	30
				56	52	33
			Eng Wood on GenieMat™ RST02	57	50	2
				56	55	29
58				53	34	
None	59	54	2			
	Eng Wood on GenieMat™ RST02	58	59	5		
CLT 5-ply (5.1875")	1-1/2" concrete	1" Regupol SonusWave	None	56	49	3
		½" Insonomat		53	47	68
		AcoustiTECH Soprema Insonomat (under concrete) + Soprema Insonofloor (on topping)	Eng Wood	-	49 ³	4
		Regupol SonusWave (under concrete) + AcoustiTECH Soprema Insonofloor (on topping)		-	53 ³	
		AcoustiTECH LEAD 6 + AcoustiTECH Sofix + 5/8" plywood + 1/2" plywood + Soprema Insonofloor		-	58 ³	
		AcoustiTECH Sofix + 2 layers 5/8" OSB + AcoustiTECH Ceramic	Ceramic Tile	-	60 ³	4
		AcoustiTECH LEAD 6 + AcoustiTECH Sofix + 2 layers 5/8" OSB + AcoustiTECH Ceramic		-	63 ³	
		0.35" (9 mm) Owens Corning QuietZone closed cell foam	None	52	40	68
		0.39" (10 mm) Tar Boards		52	41	
		Eng Wood on 2 mm closed cell foam	50	46		

Table 1 Continued: CLT Floor Assemblies with Concrete/Gypsum Topping, Ceiling Side Exposed

CLT Panel	Concrete/Gypsum Topping	Acoustical Mat Product Between CLT and Topping	Finish Floor	STC ¹	IIC ¹	Source	
CLT 5-ply (5.1875")	2" concrete	0.1 mm polyethylene sheeting on 10 mm Tar Boards	None	47	35	68	
			Laminate floor on 3 mm AcoustiTECH Premium Felt Membrane	42	45		
	2-3/4" concrete	1" Regupol SonusWave	1" Regupol SonusWave (under concrete) + Fermacell 2E31 (on topping)	None	56	46	3
					-	52	
					57	45	
			LVT	-	51		
	2-3/4" cement mortar	1/2" Insonomat	1/2" Insonomat on 10 mm Tar Boards	None	56	45	68
					58	47	
	2-3/4" concrete	Roxul ComfortBoard IS, 1.25" (under concrete) + Roberts Soft Stride (on topping)		LVT	-	51	3
	CLT 7-ply (9.875")	1-1/2" concrete	0.35" (9 mm) closed-cell foam	None	56	44	20

Table 1 Notes:

1. All STC tests performed in accordance with ASTM E 90 unless otherwise noted below. All IIC tests performed in accordance with ASTM E 492 unless otherwise noted below. See end of document for sources and referenced test reports.
2. ASTC field tests performed in accordance with ASTM E 336. AIIC field tests performed in accordance with ASTM E 1007.
3. IIC tests not performed in accordance with a singular test standard. Test measurement method used a combination of ASTM E492 and ASTM 1007 per acoustical mat product manufacturer.
4. FSTC field test performed in accordance with ASTM E 336. AIIC field test not performed in accordance with ASTM E 1007 (inadequate number of measurements).
5. STC and IIC noted is a prediction based on the ISO 15712-1 prediction method as noted in the referenced test report.
6. STC and IIC noted is based on floor zone testing procedures that are modifications of ASTM E90 and E492 test and do not fully conform with these test standards per acoustical mat product manufacturer and as noted in the referenced test report.
7. Actual thickness of CLT in this test was 6.3" (160 mm)
8. Assemblies included in the 1st edition of the CLT Handbook are included herein due to their legacy use. However, the testing standards used for these assemblies are European and direct correlation to IBC-referenced ASTM standards is not currently available.
9. STC and IIC noted is a based on the ISO 12354 model as noted in the referenced manufacturer's literature

Table 2: CLT Floor Assemblies without Concrete/Gypsum Topping, Ceiling Side Exposed

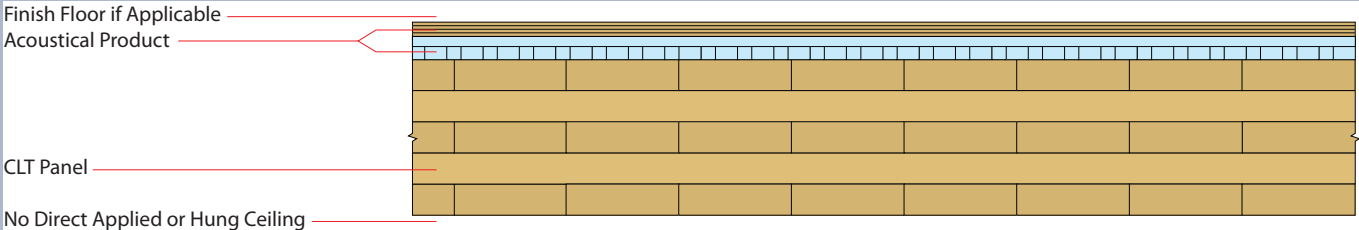
CLT Panel	Acoustical Product on CLT Panel	Finish Floor	STC ¹	IIC ¹	Source
					
CLT 5-ply (6.875")	None	None	41	25	20
	2 layers 23/32" AdvanTech® on Pliteq GenieMat™ FF10		45	42	35
	2 layers 23/32" AdvanTech® on Pliteq GenieMat™ FF25		48	44	36
	23/32" AdvanTech® on ½" cement board on Pliteq GenieMat™ RST02 on ½" cement board on Pliteq GenieMat™ FF25	LVT	53	51	37
	2x12 mm cement board on ½" wood fiberboard	None	48	46	20
	5/8" plywood on ½" plywood on AcoustiTECH Sofix on AcoustiTECH 6 mm membrane	Eng Wood	-	55 ² AIIIC	67
		Ceramic Tile on AcoustiTECH 3 mm membrane	-	55 ² AIIIC	
		LVT	-	56 ² AIIIC	
	5/8" plywood on ½" plywood on AcoustiTECH Sofix	Eng Wood on Insonofloor	55 ² ASTC	-	
Fermacell E-32 on Honeycomb Fermacell filled with New granule	Eng Wood on AcoustiTECH VP	58 ² ASTC	58 ² AIIIC	10	
CLT 5-ply (5.1875")	None	None	39	22	3
	Regupol SonoDeck		44	38	
	Fermacell 2E31		48	41	
	Fermacell 2E32 + AcoustiTECH Soprema Insonofloor	Eng Wood	-	43 ³	4
	Fermacell 2E32 + Fermacell 12.5 + AcoustiTECH Soprema Insonofloor		-	44 ³	
	Fermacell Honeycomb w/filling + Fermacell 2E32 + AcoustiTECH Soprema Insonofloor		-	49 ³	
	Fermacell Honeycomb w/filling + Fermacell 2E32 + Fermacell 12.5 + AcoustiTECH Soprema Insonofloor		-	50 ³	
	AcoustiTECH Sofix + 5/8" plywood + ½" plywood + Soprema Insonofloor		-	51 ³	

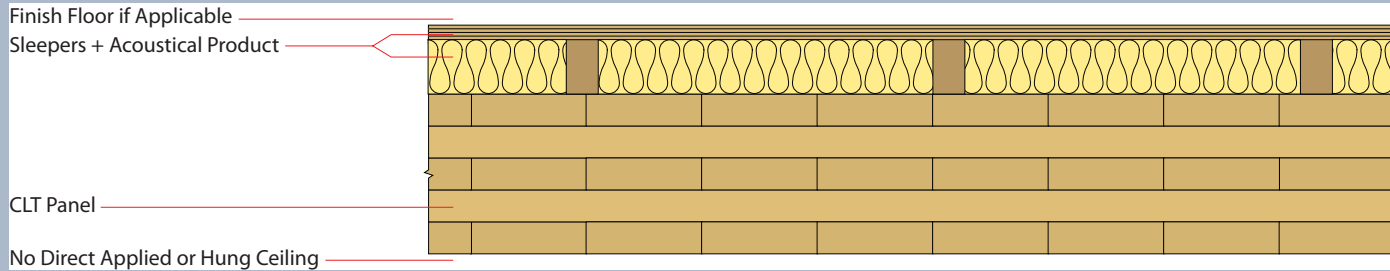
Table 2 Continued: CLT Floor Assemblies without Concrete/Gypsum Topping, Ceiling Side Exposed

CLT Panel	Acoustical Product on CLT Panel	Finish Floor	STC ¹	IIC ¹	Source
CLT 5-ply (5.1875")	AcoustiTECH Sofix + 2 layers 5/8" OSB + AcoustiTECH Ceramic	Ceramic Tile	-	54 ³	4
	AcoustiTECH LEAD 6 + AcoustiTECH Sofix + 2 layers 5/8" OSB + AcoustiTECH Ceramic		-	58 ³	
CLT 7-ply (9.875")	None	None	44	30	20

Table 2 Notes:

1. All STC tests performed in accordance with ASTM E 90 unless otherwise noted below. All IIC tests performed in accordance with ASTM E 492 unless otherwise noted below. See end of document for sources and referenced test reports.
2. ASTC field tests performed in accordance with ASTM E 336. AIIC field tests performed in accordance with ASTM E 1007.
3. IIC tests not performed in accordance with a singular test standard. Test measurement method used a combination of ASTM E492 and ASTM 1007 per acoustical mat product manufacturer.
4. FSTC field test performed in accordance with ASTM E 336. AIIC field test not performed in accordance with ASTM E 1007 (inadequate number of measurements).
5. STC and IIC noted is a prediction based on the ISO 15712-1 prediction method as noted in the referenced test report.

Table 3: CLT Floor Assemblies without Concrete/Gypsum Topping, with Wood Sleepers, Ceiling Side Exposed



CLT Panel	Sleeper + Acoustical Product on CLT Panel	Finish Floor	STC ¹	IIC ¹	Source
CLT 5-ply (5.1875")	AcoustiTECH Soprema Acoustiboard Strips + wood rafts w/batts + 5/8" OSB + Soprema Insonomat + 1-1/2" concrete	None	-	56 ³	4
	AcoustiTECH Soprema Acoustiboard Strips + wood rafts w/batts + 5/8" OSB + Soprema Insonomat + 1-1/2" concrete + Soprema Insonofloor	Eng Wood	-	61 ³	
	AcoustiTECH Soprema Acoustiboard Strips + wood rafts w/batts + 5/8" OSB + Regupol SonusWave + 1-1/2" concrete	None	-	57 ³	
	AcoustiTECH Soprema Acoustiboard Strips + wood rafts w/batts + 5/8" OSB + Regupol SonusWave + 1-1/2" concrete + Soprema Insonofloor	Eng Wood	-	63 ³	
	AcoustiTECH Soprema Acoustiboard Strips + wood rafts w/sand + 5/8" OSB + Soprema Insonomat + 1-1/2" concrete	None	-	57 ³	
	AcoustiTECH Soprema Acoustiboard Strips + wood rafts w/sand + 5/8" OSB + Soprema Insonomat + 1-1/2" concrete + Soprema Insonofloor	Eng Wood	-	61 ³	
	AcoustiTECH Soprema Acoustiboard Strips + wood rafts w/sand + 5/8" OSB + Regupol SonusWave + 1-1/2" concrete	None	-	58 ³	
	AcoustiTECH Soprema Acoustiboard Strips + wood rafts w/sand + 5/8" OSB + Regupol SonusWave + 1-1/2" concrete + Soprema Insonofloor	Eng Wood	-	64 ³	
	Wood rafts w/batts + OSB + Regupol SonusWave (0.67") + 1-1/2" concrete + Roberts Soft Stride	LVT	-	58	3
	Wood rafts w/sand + OSB	None	52	47	
Wood rafts w/sand + OSB + Fermacell 2E31	59		53		
Wood rafts w/sand + OSB + regupol SonoDeck	56		50		
Wood rafts w/sand + OSB + 1-1/2" concrete	64		53		
Wood rafts (no sand or batts) + OSB + Regupol SonuWave (0.67") + 1-1/2" concrete	59		54		
Wood rafts w/batts + OSB + Regupol SonuWave (0.67") + 1-1/2" concrete	60		54		
Wood rafts w/sand + OSB + Regupol SonusWave (0.67") + 1-1/2" concrete	66		60		

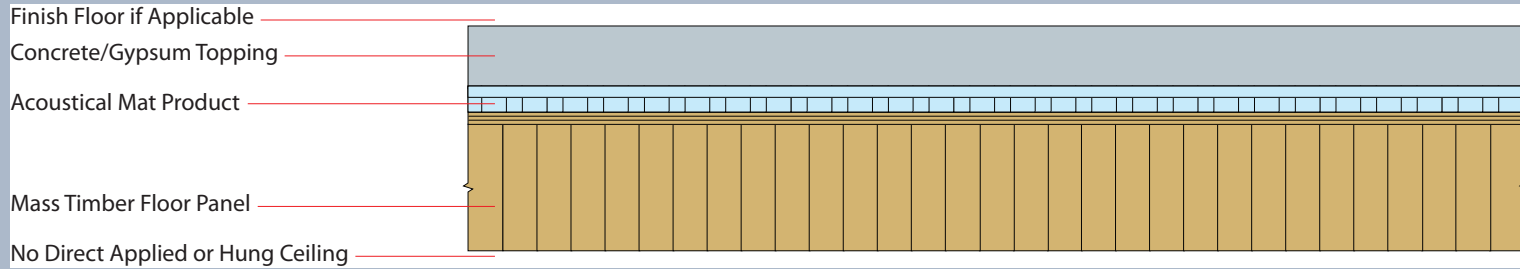
Table 3: CLT Floor Assemblies without Concrete/Gypsum Topping, with Wood Sleepers, Ceiling Side Exposed



Table 3 Notes:

1. All STC tests performed in accordance with ASTM E 90 unless otherwise noted below. All IIC tests performed in accordance with ASTM E 492 unless otherwise noted below. See end of document for sources and referenced test reports.
2. ASTC field tests performed in accordance with ASTM E 336. AIIC field tests performed in accordance with ASTM E 1007.
3. IIC tests not performed in accordance with a singular test standard. Test measurement method used a combination of ASTM E492 and ASTM 1007 per acoustical mat product manufacturer.
4. FSTC field test performed in accordance with ASTM E 336. AIIC field test not performed in accordance with ASTM E 1007 (inadequate number of measurements).
5. STC and IIC noted is a prediction based on the ISO 15712-1 prediction method as noted in the referenced test report

Table 4: NLT, GLT & T&G Decking Floor Assemblies, Ceiling Side Exposed



Mass Timber Floor Panel	Concrete/Gypsum Topping	Acoustical Product Between CLT and Topping	Finish Floor	STC ¹	IIC ¹	Source	
2x4 NLT + 3/4" plywood	None	None	None	29	-	21	
2x6 NLT + 1/2" plywood	None	None	None	34	33	55	
		3/4" USG concrete structural panels on 362S137 steel studs @ 16" o.c. on Kinetics® RIM-L-2-16 System		54	45	27	
	2" Gyp-Crete®	Maxxon Acousti-Mat® 3/4 Premium	None	47 ² ASTC	-	9	
			LVT on Acousti-Top®	-	47 ² AIIC	28	
	2-1/2" concrete	Kinetics® Ultra Quiet SR	None	56	48	23	
			Engineered Hardwood	56	52	24	
			LVT	55	57	25	
	4" concrete	None	None	None	51	36	8
			Pliteq GenieMat™ FF06	None	51	44	7
			Pliteq GenieMat™ FF25	Carpet	51	58	49
			Pliteq GenieMat™ FF50	None	54	50	50
			Pliteq GenieMat™ FF75		56	52	51
Pliteq GenieMat™ FF75	56	53	52				
2x8 NLT + 3/4" plywood	None	None	None	31	-	21	

Table 4 Continued: NLT, GLT & T&G Decking Floor Assemblies, Ceiling Side Exposed

Mass Timber Floor Panel	Concrete/Gypsum Topping	Acoustical Product Between CLT and Topping	Finish Floor	STC ¹	IIC ¹	Source
2x10 NLT + 3/4" plywood	None	None	None	36	-	21
2x12 NLT	1-1/2" concrete	None	None	53	-	21
		0.35" (9mm) closed-cell foam		56	-	
		1/2" wood fiberboard		58	-	
2x12 NLT + 3/4" plywood	None	None	None	41	-	21
	1-1/2" concrete	Pliteq GenieMat™ FF06	None	56	45	17
		Pliteq GenieMat™ FF10		57	47	18
		Pliteq GenieMat™ FF25		60	51	19
GLT 3.5"	None	None	None	35	20	3
		Fermacell 2E31		47	37	
		Wood rafts w/sand + OSB		51	47	
	1-1/2" concrete	Wood rafts w/sand + OSB + Regupol SonusWave (0.67") + concrete + Roberts Soft Stride	LVT	-	62	3
		Wood rafts w/sand + OSB + Regupol SonusWave (0.67") + concrete	None	65	59	
	2-3/4" concrete	Regupol SonusWave (1.0")	None	54	45	3
2-3/4" cement mortar	1/2" Insonomat	None	51	42	68	
		Carpet tiles	52	51		
T&G Decking	None	None	None	29	24	2
		Wood flooring on 5/8" plywood on 1" Kinetics RIM Isolation Material	Hardwood	49 ² ASTC	48 ² FIIC	11
	1-1/2" gypsum	Wood flooring on 3/4" sleepers on gypsum on 2 layers 1/2" OSB on 1" Kinetics® RIM L-1-16	Hardwood	50 ⁴ FSTC	45 ⁴ FIIC	57
	2" gypsum	Pliteq GenieMat™ FF42 (FF17 + FF25) on 1/2" cement board	None	53	-	46
LVT on Pliteq GenieMat™ RST05			-	52		

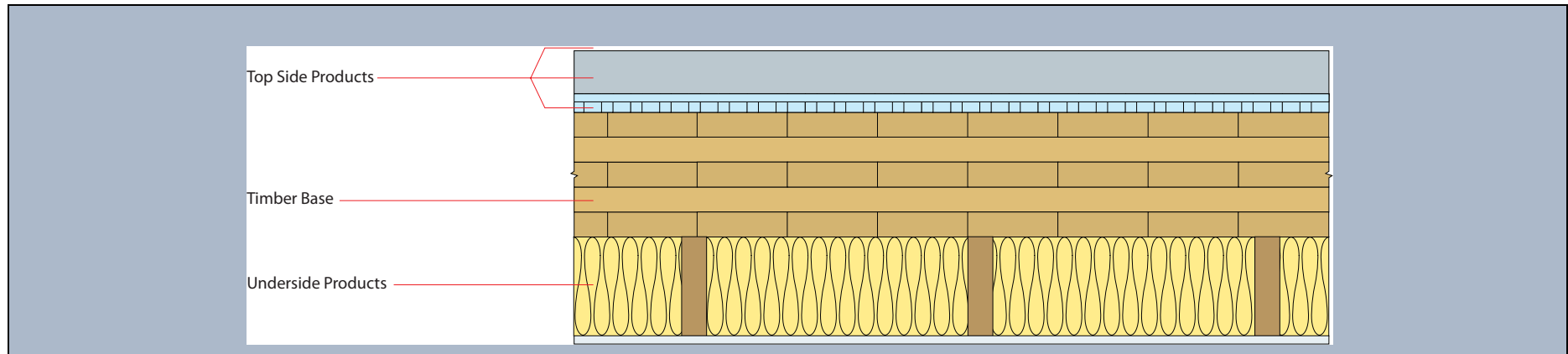
Table 4 Continued: NLT, GLT & T&G Decking Floor Assemblies, Ceiling Side Exposed

Mass Timber Floor Panel	Concrete/Gypsum Topping	Acoustical Product Between CLT and Topping	Finish Floor	STC ¹	IIC ¹	Source
T&G Decking	3" LW concrete	Concrete on 6 mil poly vapor barrier on ½" plywood on 2" Kinetics® Model RIM Isolation Material on ½" plywood on 3" T&G	None	62 ² NNIC	54 ² FIIC	26
	4" concrete	None	None	40	34	2
		Pliteq GenieMat™ FF42		54	51	
		Pliteq GenieMat™ FF42 on ½" cement board		54	52	47
		½" plywood on Kinetics® RIM system		53	40	48
Wood Subfloor	1-1/2" Gyp-Crete®	Maxxon Acousti-Mat® ¾	Tile	47 ² FSTC	-	1
			Eng Wood	-	52 ² FIIC	
			LVT	-	46 ² FIIC	
		Cementitious Overlayment	52 ² FSTC	51 ² FIIC		
			Maxxon Acousti-Mat® ¾ + Acousti-Mat® SBR			
	2" concrete	Maxxon Acousti-Mat® ¾ Premium	None	-	47 ² AIIC	1

Table 4 Notes:

1. All STC tests performed in accordance with ASTM E 90 unless otherwise noted below. All IIC tests performed in accordance with ASTM E 492 unless otherwise noted below. See end of document for sources and referenced test reports.
2. ASTC field tests performed in accordance with ASTM E 336. AIIC field tests performed in accordance with ASTM E 1007.
3. IIC tests not performed in accordance with a singular test standard. Test measurement method used a combination of ASTM E492 and ASTM 1007 per acoustical mat product manufacturer.
4. FSTC field test performed in accordance with ASTM E 336. AIIC field test not performed in accordance with ASTM E 1007 (inadequate number of measurements).
5. STC and IIC noted is a prediction based on the ISO 15712-1 prediction method as noted in the referenced test report.

Table 5: Mass Timber Floor Assemblies with Ceiling Side Concealed



Timber Base	Top Side Products	Underside Products	STC ¹	IIC ¹	Source
CLT 5-ply (5.1875")	9 mm Laminate floor on 3 mm AxcoustiTECH Premium Felt Membrane on 1-1/2" concrete on 10 MM Tar Boards	2 layers 5/8" type C gypsum hung on 7/8" furring channels @ 16" o.c. hung on 1-1/2" channels @ 4'-0" o.c. 6" below CLT. 3-5/8" batt insulation in cavity	75	66	68
CLT 5-ply (5.75")	None	4" tall sound isolation clips, 4" batt insulation in cavity, metal hat channels at 16" o.c. attached to sound isolation clips, 2 layers of 1/2" gypsum board	64 ⁸	59 ⁸	6
	None	8" tall sound isolation clips, 8" batt insulation in cavity, metal hat channels at 16" o.c. attached to sound isolation clips, 2 layers of 1/2" gypsum board	63 ⁸	62 ⁸	
	1/4" laminated flooring, 5 mm Phaltex low-density wood fiberboard		62 ⁸	63 ⁸	
	1/4" laminated flooring, 10 mm Phaltex low-density wood fiberboard		63 ⁸	64 ⁸	
	2 layers of 7/8" particle board, 1-5/8"x1-5/8" wood sleepers at 16" o.c., 1-5/8" mineral wool insulation between wood sleepers, Regupol underlayment	4" tall sound isolation clips, 4" batt insulation in cavity, metal hat channels at 16" o.c. attached to sound isolation clips, 2 layers of 1/2" gypsum board	67 ⁸	62 ⁸	
	2 layers 1/2" gypsum board, 20 mm dry topping (Fermacell or cement fiberboard)		63 ⁸	63 ⁸	
	Floorboard, 1-5/8"x1-5/8" wood sleepers at 16" o.c., 2 layers Thermisorel 20 mm low-density wood fiberboard between sleepers		64 ⁸	65 ⁸	

Table 5 Continued: Mass Timber Floor Assemblies with Ceiling Side Concealed

Timber Base	Top Side Products	Underside Products	STC ¹	IIC ¹	Source	
CLT 5-ply (5.75")	5/8" OSB, Roberts flooring underlayment, 1-5/8"x1-5/8" wood sleepers at 16" o.c., 2 layers Thermisorel 20 mm low-density wood fiberboard between sleepers, Roberts flooring underlayment	8" tall sound isolation clips, 8" batt insulation in cavity, metal hat channels at 16" o.c. attached to sound isolation clips, 2 layers of 1/2" gypsum board	62 ⁸	62 ⁸	6	
CLT 5-ply (6.3")	2.36" (60mm) concrete, Rothoblaas Barrier 100, 1.18" (30mm) mineral wool insulation, 3.15" (80mm) compact gravel fill with cement, Rothoblaas Silent Floor	Resilient plasterboard connectors, metal structure for plasterboard (channels), 0.4" (10mm) air space, 2" (50mm) low-density mineral insulation, 0.5" plasterboard panel	59	44	12	
CLT 5-ply (6.875")	None	2 layers 1/2" type X gypsum	42	25	20	
		2 layers 1/2" type X gypsum + 2x2 wood furring @ 24" o.c.	50	36		
		2 layers 1/2" type X gypsum hung on metal grillage 5.9" (150 mm) below CLT	68	56		
		2 layers 1/2" type X gypsum directly attached to CLT and additional acoustic hung ceiling, 5/8" type X gypsum hung on metal grillage 5.9" (150 mm) below CLT	67	55		
		Pliteq GenieClip™ LB on 48"x48" grid, 6" airspace, R-13 fiberglass batt insulation, 1-1/2" light gauge steel channels, 5/8" furring channel, 5/8" type X gypsum board	58	45	39	
		Pliteq GenieClip™ RST on 24"x48" grid, 1-1/2" airspace, R-8 fiberglass batt insulation, 7/8" furring channel, 5/8" type C gypsum board	53	45	41	
		3-1/2" z-channels @ 16" o.c. direct applied to CLT + 3-5/8" cavity batt insulation + 5/8" furring channels @ 16" o.c. + 1 layer 5/8" type X gypsum	62	48	68	
		10 mm laminated or eng. Wood flooring, 3 mm resilient underlayment (Isonobois or sim.)	4" tall sound isolation clips, 4" batt insulation in cavity, metal hat channels at 16" o.c. attached to sound isolation clips, 1/2" type C gypsum board, 1/2" type X gypsum board	50 ⁸ + FSTC	50 ⁸ + FIIC	6
		Hardwood flooring, 3/4" plywood, 10 mm underlayment (IsonoMat or sim.)		53 ⁸ + FSTC	53 ⁸ + FIIC	
		Ceramic tile, 1/2" plywood, 3/4" plywood, 10 mm underlayment (IsonoMat or sim.)		53 ⁸ + FSTC	53 ⁸ + FIIC	

Table 5 Continued: Mass Timber Floor Assemblies with Ceiling Side Concealed

Timber Base	Top Side Products	Underside Products	STC ¹	IIC ¹	Source
CLT 5-ply (6.875")	LVT, 3/4" Gyp-Crete®, Maxxon Acousti-Mat® 1/8	½" resilient channel, 5/8" gypsum board, suspended ceiling (24" deep plenum) with 3-1/2" mineral wool batt insulation, 5/8" gypsum board	54 ² ASTC	56 ² FIIC	1
	Carpet & pad, 3/4" Gyp-Crete®, Maxxon Acousti-Mat® 1/8		54 ² ASTC	74 ² FIIC	
	Vinyl plank on Pliteq GenieMat™ RST05	Pliteq GenieClip™ LB on 48"x48" grid, 6" airspace, R-13 fiberglass batt insulation, 1-1/2" light gauge steel channels, 5/8" furring channel, 5/8" type X gypsum board	58	58	40
	½" engineered wood on Pliteq GenieMat™ RST02	Pliteq GenieClip™ RST on 24"x48" grid, 1-1/2" airspace, R-8 fiberglass batt insulation, 7/8" furring channel, 5/8" type C gypsum board	54	50	42
	Porcelain tile on Pliteq GenieMat™ RST12		55	51	43
	2x12 mm cement board on ½" wood fiberboard	2 layers ½" type X gypsum	48 ⁵	38 ⁵	20
		2 layers ½" type X gypsum + 2x2 wood furring @ 24" o.c.	54 ⁵	47 ⁵	
		2 layers ½" type X gypsum hung on metal grillage 5.9" (150 mm) below CLT	69	63	
		2 layers ½" type X gypsum direct applied to CLT + 1 later 5/8" type X gypsum hung on metal grillage 5.9" (150 mm) below CLT	68 ⁵	60 ⁵	
	1-1/2" gypsum concrete on 0.35" (9 mm) closed-cell foam	2 layers ½" type X gypsum	50 ⁵	41 ⁵	
		2 layers ½" type X gypsum + 2x2 wood furring @ 24" o.c.	58 ⁵	49 ⁵	
		2 layers ½" type X gypsum hung on metal grillage 5.9" (150 mm) below CLT	72	63	
		2 layers ½" type X gypsum direct applied to CLT + 1 later 5/8" type X gypsum hung on metal grillage 5.9" (150 mm) below CLT	73 ⁵	63 ⁵	
	1-1/2" concrete	2 layers ½" type X gypsum	49 ⁵	32 ⁵	
2 layers ½" type X gypsum + 2x2 wood furring @ 24" o.c.		56 ⁵	41 ⁵		
2 layers ½" type X gypsum hung on metal grillage 5.9" (150 mm) below CLT		75 ⁵	60 ⁵		
2 layers ½" type X gypsum direct applied to CLT + 1 later 5/8" type X gypsum hung on metal grillage 5.9" (150 mm) below CLT		74 ⁵	60 ⁵		

Table 5 Continued: Mass Timber Floor Assemblies with Ceiling Side Concealed

Timber Base	Top Side Products	Underside Products	STC ¹	IIC ¹	Source
CLT 5-ply (6.875")	1-1/2" concrete on 0.35" (9 mm) closed-cell foam	2 layers 1/2" type X gypsum	53 ⁵	40 ⁵	20
		2 layers 1/2" type X gypsum + 2x2 wood furring @ 24" o.c.	59 ⁵	50 ⁵	
		2 layers 1/2" type X gypsum hung on metal grillage 5.9" (150 mm) below CLT	76 ⁵	66 ⁵	
	1-1/2" concrete on 0.35" (9 mm) closed-cell foam	2 layers 1/2" type X gypsum direct applied to CLT + 1 later 5/8" type X gypsum hung on metal grillage 5.9" (150 mm) below CLT	74 ⁵	64 ⁵	
	1-1/2" concrete on 0.35" (9 mm) Owens Corning QuietZone closed-cell foam	3-1/2" z-channels @ 16" o.c. direct applied to CLT + 3-5/8" cavity batt insulation + 5/8" furring channels @ 16" o.c. + 1 layer 5/8" type X gypsum	70	56	68
		2 layers 5/8" type C gypsum hung on 7/8" furring channels @ 16" o.c. hung on 1-1/2" channels @ 4'-0" o.c. 2-1/2" below CLT. 3-5/8" batt insulation in cavity	72	65	
		2 layers 5/8" type C gypsum hung on 1/2" resilient channels @ 16" o.c. on 7/8" furring channels @ 16" o.c. hung on 1-1/2" channels @ 4'-0" o.c. 2" below CLT. 3-5/8" batt insulation in cavity	73	66	
		1 layer 5/8" type C gypsum hung on 1/2" resilient channels @ 16" o.c. on 7/8" furring channels @ 16" o.c. hung on 1-1/2" channels @ 4'-0" o.c. 2" below CLT. 3-5/8" batt insulation in cavity	72	62	
	1-1/2" concrete on 1/2" wood fiberboard	2 layers 1/2" type X gypsum	53 ⁵	38 ⁵	20
		2 layers 1/2" type X gypsum + 2x2 wood furring @ 24" o.c.	59 ⁵	47 ⁵	
		2 layers 1/2" type X gypsum hung on metal grillage 5.9" (150 mm) below CLT	76 ⁵	64 ⁵	
		2 layers 1/2" type X gypsum direct applied to CLT + 1 later 5/8" type X gypsum hung on metal grillage 5.9" (150 mm) below CLT	73 ⁵	63 ⁵	
	Eng wood floor on AcoustiTECH VP on 1-1/2" concrete on 1/2" wood fiberboard	2 layers 1/2" type X gypsum hung on metal grillage 3.9" (100 mm) below CLT. 3-1/2" cavity batt insulation	55 ² ASTC	57 ² AIIC	69
	1-1/2" concrete on 0.75" recycled fabric felt	2 layers 1/2" type X gypsum	59 ⁵	46 ⁵	20
2 layers 1/2" type X gypsum + 2x2 wood furring @ 24" o.c.		63 ⁵	45 ⁵		

Table 5 Continued: Mass Timber Floor Assemblies with Ceiling Side Concealed

Timber Base	Top Side Products	Underside Products	STC ¹	IIC ¹	Source
CLT 5-ply (6.875")	1-1/2" concrete on 0.75" recycled fabric felt	2 layers 1/2" type X gypsum hung on metal grillage 5.9" (150 mm) below CLT	77 ⁵	61 ⁵	20
		2 layers 1/2" type X gypsum direct applied to CLT + 1 later 5/8" type X gypsum hung on metal grillage 5.9" (150 mm) below CLT	75 ⁵	60 ⁵	
	1-1/2" concrete on 1/2" rubber nuggets on foil	2 layers 1/2" type X gypsum	53 ⁵	44 ⁵	
		2 layers 1/2" type X gypsum + 2x2 wood furring @ 24" o.c.	59 ⁵	49 ⁵	
		2 layers 1/2" type X gypsum hung on metal grillage 5.9" (150 mm) below CLT	73 ⁵	65 ⁵	
		2 layers 1/2" type X gypsum direct applied to CLT + 1 later 5/8" type X gypsum hung on metal grillage 5.9" (150 mm) below CLT	70 ⁵	63 ⁵	
	1-1/2" concrete on 0.31" (8 mm) shredded rubber mat	2 layers 1/2" type X gypsum	52 ⁵	38 ⁵	
		2 layers 1/2" type X gypsum + 2x2 wood furring @ 24" o.c.	58 ⁵	48 ⁵	
	1-1/2" concrete on 0.31" (8 mm) shredded rubber mat	2 layers 1/2" type X gypsum hung on metal grillage 5.9" (150 mm) below CLT	76 ⁵	66 ⁵	
		2 layers 1/2" type X gypsum direct applied to CLT + 1 later 5/8" type X gypsum hung on metal grillage 5.9" (150 mm) below CLT	74 ⁵	64 ⁵	
	1-1/2" concrete on 0.67" (17 mm) shredded rubber mat	2 layers 1/2" type X gypsum	54 ⁵	43 ⁵	
		2 layers 1/2" type X gypsum + 2x2 wood furring @ 24" o.c.	60 ⁵	51 ⁵	
		2 layers 1/2" type X gypsum hung on metal grillage 5.9" (150 mm) below CLT	76 ⁵	67 ⁵	
		2 layers 1/2" type X gypsum direct applied to CLT + 1 later 5/8" type X gypsum hung on metal grillage 5.9" (150 mm) below CLT	73 ⁵	65 ⁵	
	Eng wood on acoustic membrane on 1-1/2" concrete on 1/2" wood fiber board	3-1/2" z-channels @ 24" o.c. direct applied to CLT + 3-1/2" cavity batt insulation + 7/8" furring channels @ 16" o.c. + 1 layer 5/8" type X gypsum	58 ² ASTC	54 ² AIIC	71

Table 5 Continued: Mass Timber Floor Assemblies with Ceiling Side Concealed

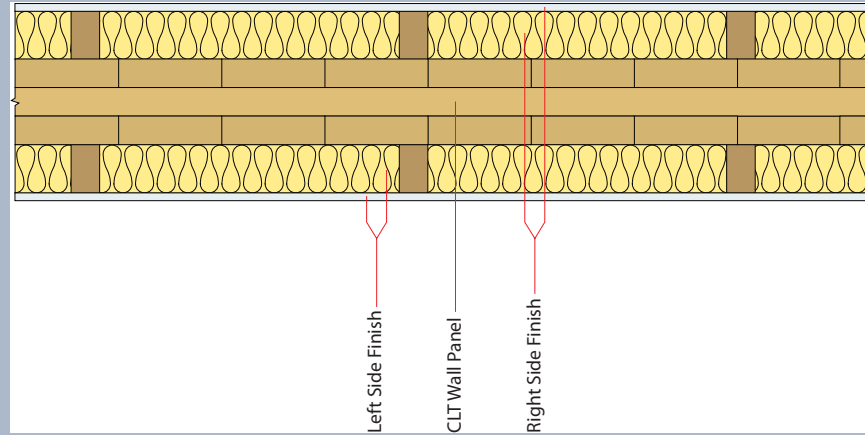
Timber Base	Top Side Products	Underside Products	STC ¹	IIC ¹	Source
CLT 5-ply (6.875")	1-1/2" concrete on 0.39" (10 mm) Tar Boards	3-1/2" z-channels @ 16" o.c. direct applied to CLT + 3-5/8" cavity batt insulation + 5/8" furring channels @ 16" o.c. + 1 layer 5/8" type X gypsum	69	54	68
	Eng Wood on 2 mm closed cell foam on 1-1/2" concrete on 0.39" (10 mm) Tar Boards		69	58	
	2 layers 23/32" AdvanTech® on Pliteq GenieMat™ FF25	Pliteq GenieClip™ LB on 48"x48" grid, R-13 fiberglass batt insulation, 1-1/2" light gauge steel channels, 5/8" furring channel, 5/8" type X gypsum board	61	55	38
	½" engineered wood on Pliteq GenieMat™ RST02 on 2" gypsum on Pliteq GenieMat™ FF25	Pliteq GenieClip™ RST on 24"x48" grid, 1-1/2" airspace, R-8 fiberglass batt insulation, 7/8" furring channel, 5/8" type C gypsum board	59	52	44
	2" gypsum on Pliteq GenieMat™ FF25		60	52	45
	Carpet on 1.57" (40 mm) concrete	1 layer 5/8" type X gypsum direct applied to CLT + 1-1/2" furring channels + ¾" resilient channels @ 16" o.c. + 2 layers 5/8" type X gypsum	55 ² ASTC	53 ² AIIC	70
CLT 7-ply (9.875")	None	2 layers ½" type X gypsum	45	29	20
	1-1/2" concrete on ½" wood fiberboard		56	44	
T&G Decking	4" concrete on Pliteq GenieMat™ FF06	Pliteq GenieClip™ RST, R-8 fiberglass batt insulation, 7/8" furring channel, 2 layers of 5/8" type C gypsum board	58	60	56
2x6 NLT + ½" plywood	4" concrete on Pliteq GenieMat™ FF06	Pliteq GenieClip™ RST on 24"x48" grid, 1-1/2" airspace, R-8 fiberglass batt insulation, 7/8" furring channel, 5/8" type C gypsum board	60	59	53
		Resilient channels, 5/8" type C gypsum board	55	49	54

Table 5 Continued: Mass Timber Floor Assemblies with Ceiling Side Concealed

Table 5 Notes:

1. All STC tests performed in accordance with ASTM E 90 unless otherwise noted below. All IIC tests performed in accordance with ASTM E 492 unless otherwise noted below. See end of document for sources and referenced test reports.
2. ASTC field tests performed in accordance with ASTM E 336. AIIC field tests performed in accordance with ASTM E 1007.
3. IIC tests not performed in accordance with a singular test standard. Test measurement method used a combination of ASTM E492 and ASTM 1007 per acoustical mat product manufacturer.
4. FSTC field test performed in accordance with ASTM E 336. AIIC field test not performed in accordance with ASTM E 1007 (inadequate number of measurements).
5. STC and IIC noted is a prediction based on the ISO 15712-1 prediction method as noted in the referenced test report
6. STC and IIC noted is based on floor zone testing procedures that are modifications of ASTM E90 and E492 test and do not fully conform with these test standards per acoustical mat product manufacturer and as noted in the referenced test report.
7. Actual thickness of CLT in this test was 6.3" (160 mm)
8. Assemblies included in the 1st edition of the CLT Handbook are included herein due to their legacy use. However, the testing standards used for these assemblies are European and direct correlation to IBC-referenced ASTM standards is not currently available.

Table 6: Single CLT Wall



CLT Wall Panel	Left Side Finish	Right Side Finish	STC ¹	Source
CLT 3-ply (3.07")	None	None	33	20
	2 layers ½" type X gypsum	None	38	
		2 layers ½" type X gypsum	38	
	2 layers ½" type X gypsum + 2x2 studs @ 16" o.c.	None	40 ⁵	
		2 layers ½" type X gypsum	44 ⁵	
		2 layers ½" type X gypsum + 2x2 studs @ 16" o.c.	39 ⁵	
	2 layers ½" type X gypsum + 2x2 studs @ 24" o.c.	None	45	
		2 layers ½" type X gypsum	47	
		2 layers ½" type X gypsum + 2x2 studs @ 16" o.c.	50	
		2 layers ½" type X gypsum + 2x2 studs @ 24" o.c.	51	
	2 layers ½" type X gypsum + 2x3 studs @ 24" o.c.	None	43 ⁵	
		2 layers ½" type X gypsum	44 ⁵	
2 layers ½" type X gypsum + 2x2 studs @ 16" o.c.		49 ⁵		

Table 6 Continued: Single CLT Wall

CLT Wall Panel	Left Side Finish	Right Side Finish	STC ¹	Source
CLT 3-ply (3.07")	2 layers ½" type X gypsum + 2x3 studs @ 24" o.c.	2 layers ½" type X gypsum + 2x2 studs @ 24" o.c.	52 ⁵	20
		2 layers ½" type X gypsum + resilient channels @ 24" o.c. + 2x2 studs @ 16" o.c.	>60 ⁵	
		2 layers ½" type X gypsum + 2x3 studs @ 24" o.c.	50 ⁵	
	2 layers ½" type X gypsum + resilient channels @ 24" o.c. + 2x2 studs @ 16" o.c.	None	53 ⁵	
		2 layers ½" type X gypsum	56 ⁵	
		2 layers ½" type X gypsum + 2x2 studs @ 16" o.c.	53 ⁵	
		2 layers ½" type X gypsum + 2x2 studs @ 24" o.c.	60 ⁵	
		2 layers ½" type X gypsum + resilient channels @ 24" o.c. + 2x2 studs @ 16" o.c.	>60 ⁵	
		2 layers ½" type X gypsum + 2x3 studs @ 24" o.c. + ½" air gap	53 ⁵	
	2 layers ½" type X gypsum + 2x3 studs @ 24" o.c. + ½" air gap	None	53 ⁵	
		2 layers ½" type X gypsum	54 ⁵	
		2 layers ½" type X gypsum + 2x2 studs @ 16" o.c.	57 ⁵	
		2 layers ½" type X gypsum + 2x2 studs @ 24" o.c.	>60 ⁵	
		2 layers ½" type X gypsum + resilient channels @ 24" o.c. + 2x2 studs @ 16" o.c.	>60 ⁵	
2 layers ½" type X gypsum + 2x3 studs @ 24" o.c. + ½" air gap		>60 ⁵		
CLT 3-ply (3.75-4.5")	5/8" gypsum board + 2x3 studs @ 16" o.c. + mineral wool in stud cavity	5/8" gypsum board + 2x3 studs @ 16" o.c. + mineral wool in stud cavity	58 ⁸	6
CLT 3-ply (4.125")	5/8" gypsum board + 2x3 studs @ 16" o.c. + mineral wool in stud cavity + ½" air gap between CLT and stud wall	None	47 ⁸ FSTC	6
		5/8" gypsum board + 2x3 studs @ 16" o.c. + mineral wool in stud cavity + ½" air gap between CLT and stud wall	50 ⁸ FSTC	
CLT 5-ply (6.875")	None	None	38	20

Table 6 Continued: Single CLT Wall

CLT Wall Panel	Left Side Finish	Right Side Finish	STC ¹	Source
CLT 5-ply (6.875")	None	5/8" gypsum board + 2x4 + insulation	49	13
		2 layers 1/2" type X gypsum	43	20
		2 layers 1/2" type X gypsum + 2x2 studs @ 16" o.c.	45	
		2 layers 1/2" type X gypsum + 2x2 studs @ 24" o.c.	50	
		2 layers 1/2" type X gypsum + 2x3 studs @ 24" o.c.	49	
		2 layers 1/2" type X gypsum + resilient channels @ 24" o.c. + 2x2 studs @ 16" o.c.	58	
		2 layers 1/2" type X gypsum + 2x3 studs @ 24" o.c. + 1/2" air gap	59	
		2 layers 5/8" type X gypsum + 1-3/8" z-channels	53	
		2 layers 5/8" type X gypsum directly attached to CLT + air gap + steel studs + 1/2" type C gypsum	62	
	5/8" gypsum board + resilient channels	5/8" gypsum board + resilient channels + 2x4 + insulation	48	13
	2 layers 1/2" type X gypsum	2 layers 1/2" type X gypsum	42	20
	2 layers 1/2" type X gypsum + 2x2 studs @ 16" o.c.	2 layers 1/2" type X gypsum	45	
		2 layers 1/2" type X gypsum + 2x2 studs @ 16" o.c.	39	
	2 layers 1/2" type X gypsum + 2x2 studs @ 24" o.c.	2 layers 1/2" type X gypsum	49 ⁵	
		2 layers 1/2" type X gypsum + 2x2 studs @ 16" o.c.	46 ⁵	
		2 layers 1/2" type X gypsum + 2x2 studs @ 24" o.c.	56	
	2 layers 1/2" type X gypsum + resilient channels @ 24" o.c. + 2x2 studs @ 16" o.c.	2 layers 1/2" type X gypsum	60 ⁵	
		2 layers 1/2" type X gypsum + 2x2 studs @ 24" o.c.	>60 ⁵	
2 layers 1/2" type X gypsum + resilient channels @ 24" o.c. + 2x2 studs @ 16" o.c.		>60 ⁵		
2 layers 1/2" type X gypsum + 2x2 studs @ 16" o.c.		55		
2 layers 1/2" type X gypsum + 2x3 studs @ 24" o.c.	2 layers 1/2" type X gypsum	48 ⁵		

Table 6 Continued: Single CLT Wall

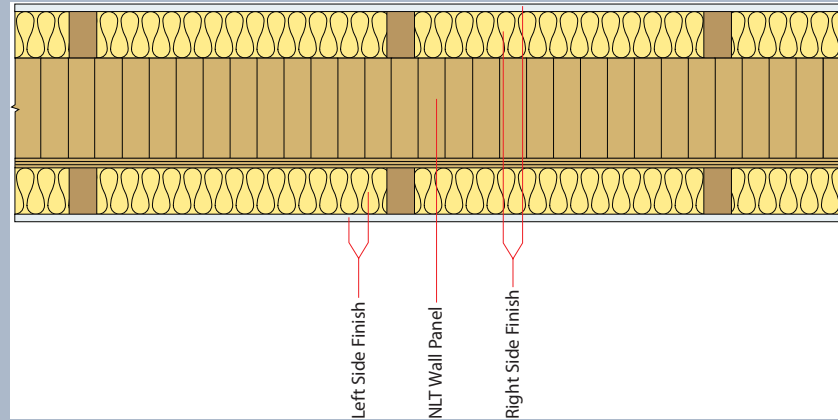
CLT Wall Panel	Left Side Finish	Right Side Finish	STC ¹	Source	
CLT 5-ply (6.875")	2 layers ½" type X gypsum + 2x3 studs @ 24" o.c.	2 layers ½" type X gypsum + 2x2 studs @ 16" o.c.	51 ⁵	20	
		2 layers ½" type X gypsum + 2x2 studs @ 24" o.c.	55		
	2 layers ½" type X gypsum + 2x3 studs @ 24" o.c.	2 layers ½" type X gypsum + 2x3 studs @ 24" o.c.	54 ⁵		
		2 layers ½" type X gypsum + resilient channels @ 24" o.c. + 2x2 studs @ 16" o.c.	>60 ⁵		
	2 layers ½" type X gypsum + 2x3 studs @ 24" o.c. + ½" air gap	2 layers ½" type X gypsum	59 ⁵		
		2 layers ½" type X gypsum + 2x2 studs @ 16" o.c.	59 ⁵		
		2 layers ½" type X gypsum + 2x2 studs @ 24" o.c.	>60 ⁵		
		2 layers ½" type X gypsum + 2x3 studs @ 24" o.c.	>60 ⁵		
		2 layers ½" type X gypsum + resilient channels @ 24" o.c. + 2x2 studs @ 16" o.c.	>60 ⁵		
		2 layers ½" type X gypsum + 2x3 studs @ 24" o.c. + ½" air gap	>60 ⁵		
	2 layers 5/8" type X gypsum	2 layers 5/8" type X gypsum directly attached to CLT + air gap + steel studs + ½" type C gypsum	61		68
	2 layers 5/8" type X gypsum + 1-3/8" z-channels	2 layers 5/8" type X gypsum + 3-5/8" steel studs + air gap	71		
		2 layers 5/8" type X gypsum + resilient channels + plywood strips	53		
		2 layers 5/8" type X gypsum	53		
2 layers 5/8" type X gypsum directly attached to CLT + air gap + steel studs + ½" type C gypsum		65			
CLT 5-ply (7.25")	5/8" gypsum board + 25 gauge RC-1 resilient channels @ 24" o.c.	5/8" gypsum board + 25 gauge RC-1 resilient channels @ 24" o.c.	46 ⁸ FSTC	6	
CLT 7-ply (9.625")	2 layers 5/8" type X gypsum + 7/8" hat channels @ 16" o.c.	2 layers 5/8" type X gypsum + 3-1/2" steel studs @ 16" o.c. + cavity batt insulation + ¾" air gap	65 ² ASTC	71	

Table 6 Continued: Single CLT Wall

Table 6 Notes:

1. All STC tests performed in accordance with ASTM E 90 unless otherwise noted below. All IIC tests performed in accordance with ASTM E 492 unless otherwise noted below. See end of document for sources and referenced test reports.
2. ASTC field tests performed in accordance with ASTM E 336. AIIC field tests performed in accordance with ASTM E 1007.
3. IIC tests not performed in accordance with a singular test standard. Test measurement method used a combination of ASTM E492 and ASTM 1007 per acoustical mat product manufacturer.
4. FSTC field test performed in accordance with ASTM E 336. AIIC field test not performed in accordance with ASTM E 1007 (inadequate number of measurements).
5. STC and IIC noted is a prediction based on the ISO 15712-1 prediction method as noted in the referenced test report
6. STC and IIC noted is based on floor zone testing procedures that are modifications of ASTM E90 and E492 test and do not fully conform with these test standards per acoustical mat product manufacturer and as noted in the referenced test report.
7. Actual thickness of CLT in this test was 6.3" (160 mm)
8. Assemblies included in the 1st edition of the CLT Handbook are included herein due to their legacy use. However, the testing standards used for these assemblies are European and direct correlation to IBC-referenced ASTM standards is not currently available.

Table 7: Single NLT Wall



NLT Wall Panel	Left Side Finish	Right Side Finish	STC ¹	Source
2x4 NLT	None	None	24	21
		3/4" plywood	29	
		3/4" OSB	30	
		2x2 @ 16" o.c. wood furring + 1-1/2" fiberglass batts + 2-layers 1/2" type X gypsum	40	
		1/2" air gap + 2x3 @ 24" o.c. wood studs + 2-1/2" fiberglass batts + 2-layers 1/2" type X gypsum	52	
		Plaster	34	
	3/4" plywood	3/4" plywood	33	
Plaster	Plaster	34		
2x6 NLT	None	None	22	21
		3/4" plywood	31	
		3/4" OSB	32	
		Plaster	38	

Table 7 Continued: Single NLT Wall

NLT Wall Panel	Left Side Finish	Right Side Finish	STC ¹	Source
2x6 NLT	None	½" air gap + 2x3 @ 24" o.c. wood studs + 2-1/2" fiberglass batts + 2-layers ½" type X gypsum	60	21
		¾" plywood + 2x2 @ 16" o.c. wood furring + 1-1/2" fiberglass batts + 2-layers ½" type X gypsum	44	
	¾" plywood	2x2 @ 16" o.c. wood furring + 1-1/2" fiberglass batts + 2-layers ½" type X gypsum	45	
		¾" plywood + ½" air gap + 2x3 @ 24" o.c. wood studs + 2-1/2" fiberglass batts + 2-layers ½" type X gypsum	62	
	Plaster	Plaster	36	
2x8 NLT	None	None	24	21
		¾" plywood	31	
		¾" OSB	32	
		2x2 @ 16" o.c. wood furring + 1-1/2" fiberglass batts + 2-layers ½" type X gypsum	41	
		½" air gap + 2x3 @ 24" o.c. wood studs + 2-1/2" fiberglass batts + 2-layers ½" type X gypsum	55	
		¾" plywood + 2x2 @ 16" o.c. wood furring + 1-1/2" fiberglass batts + 2-layers ½" type X gypsum	43	
		¾" plywood + ½" air gap + 2x3 @ 24" o.c. wood studs + 2-1/2" fiberglass batts + 2-layers ½" type X gypsum	59	
		Plaster	38	
	¾" plywood	¾" plywood	35	
		2x2 @ 16" o.c. wood furring + 1-1/2" fiberglass batts + 2-layers ½" type X gypsum	45	
		½" air gap + 2x3 @ 24" o.c. wood studs + 2-1/2" fiberglass batts + 2-layers ½" type X gypsum	60	
2x10 NLT	None	None	29	21
		¾" plywood	36	
		¾" OSB	37	

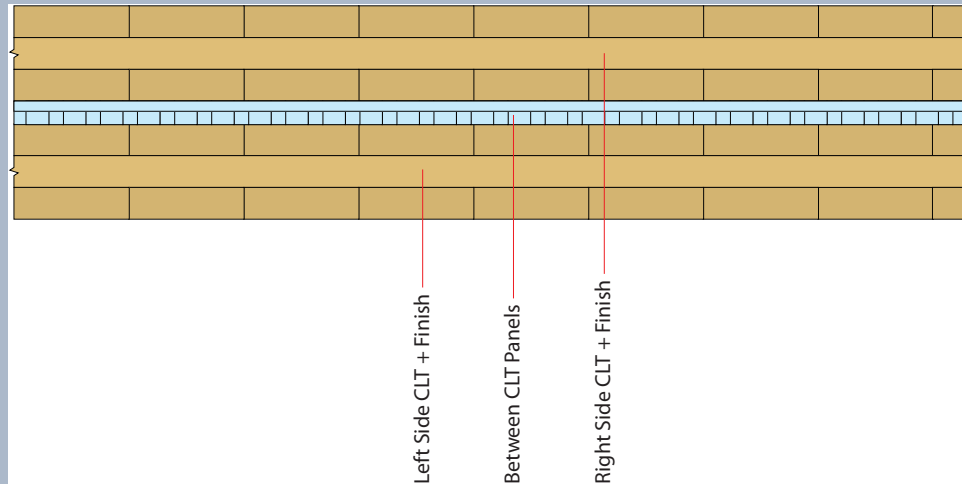
Table 7 Continued: Single NLT Wall

NLT Wall Panel	Left Side Finish	Right Side Finish	STC ¹	Source
2x10 NLT	None	¾" plywood + ½" air gap + 2x3 @ 24" o.c. wood studs + 2-1/2" fiberglass batts + 2-layers ½" type X gypsum	64	21
		¾" plywood + 2x2 @ 16" o.c. wood furring + 1-1/2" fiberglass batts + 2-layers ½" type X gypsum	47	
		Plaster	39	
	¾" plywood	2x2 @ 16" o.c. wood furring + 1-1/2" fiberglass batts + 2-layers ½" type X gypsum	46	
		½" air gap + 2x3 @ 24" o.c. wood studs + 2-1/2" fiberglass batts + 2-layers ½" type X gypsum	61	
		Plaster	41	
2x12 NLT	None	None	39	21
		¾" plywood	41	
		¾" OSB	41	
		¾" plywood + ½" air gap + 2x3 @ 24" o.c. wood studs + 2-1/2" fiberglass batts + 2-layers ½" type X gypsum	68	
		¾" plywood + 2x2 @ 16" o.c. wood furring + 1-1/2" fiberglass batts + 2-layers ½" type X gypsum	48	
		Plaster	42	
	¾" plywood	2x2 @ 16" o.c. wood furring + 1-1/2" fiberglass batts + 2-layers ½" type X gypsum	47	
		½" air gap + 2x3 @ 24" o.c. wood studs + 2-1/2" fiberglass batts + 2-layers ½" type X gypsum	63	

Table 7 Notes:

1. All STC tests performed in accordance with ASTM E 90 unless otherwise noted below. All IIC tests performed in accordance with ASTM E 492 unless otherwise noted below. See end of document for sources and referenced test reports.
2. ASTC field tests performed in accordance with ASTM E 336. AIIIC field tests performed in accordance with ASTM E 1007.
3. IIC tests not performed in accordance with a singular test standard. Test measurement method used a combination of ASTM E492 and ASTM 1007 per acoustical mat product manufacturer.
4. FSTC field test performed in accordance with ASTM E 336. AIIIC field test not performed in accordance with ASTM E 1007 (inadequate number of measurements).
5. STC and IIC noted is a prediction based on the ISO 15712-1 prediction method as noted in the referenced test report

Table 8: Double CLT Wall



Left Side CLT + Finish	Between CLT Panels	Right Side CLT + Finish	STC ¹	Source
CLT 3-ply (3") + 25 gauge RC-1 resilient channels @ 24" o.c. + 5/8" gypsum board	1" mineral wool	CLT 3-ply (3") + 25 gauge RC-1 resilient channels @ 24" o.c. + 5/8" gypsum board	47 ⁸ FSTC	6
CLT 3-ply (3.07")	1" insulation	CLT 3-ply (3.07")	47	20
CLT 3-ply (3.07") + 2 layers ½" type X gypsum	1" insulation	CLT 3-ply (3.07")	53	20
		CLT 3-ply (3.07") + 2 layers ½" type X gypsum	55	
CLT 3-ply (3.07") + 2x2 studs @ 16" o.c. + 2 layers ½" type X gypsum	1" insulation	CLT 3-ply (3.07")	49 ⁵	20
		CLT 3-ply (3.07") + 2 layers ½" type X gypsum	53 ⁵	
		CLT 3-ply (3.07") + 2x2 studs @ 16" o.c. + 2 layers ½" type X gypsum	43 ⁵	
CLT 3-ply (3.07") + 2x2 studs @ 24" o.c. + 2 layers ½" type X gypsum	1" insulation	CLT 3-ply (3.07")	56	20
		CLT 3-ply (3.07") + 2 layers ½" type X gypsum	59 ⁵	
		CLT 3-ply (3.07") + 2x2 studs @ 16" o.c. + 2 layers ½" type X gypsum	52 ⁵	
		CLT 3-ply (3.07") + 2x2 studs @ 24" o.c. + 2 layers ½" type X gypsum	>60 ⁵	

Table 8 Continued: Double CLT Wall

Left Side CLT + Finish	Between CLT Panels	Right Side CLT + Finish	STC ¹	Source
CLT 3-ply (3.07") + 2x3 studs @ 24" o.c. + 2 layers ½" type X gypsum	1" insulation	CLT 3-ply (3.07")	56 ⁵	20
		CLT 3-ply (3.07") + 2 layers ½" type X gypsum	59 ⁵	
		CLT 3-ply (3.07") + 2x2 studs @ 16" o.c. + 2 layers ½" type X gypsum	55 ⁵	
		CLT 3-ply (3.07") + 2x2 studs @ 24" o.c. + 2 layers ½" type X gypsum	>60 ⁵	
		CLT 3-ply (3.07") + 2x2 studs @ 16" o.c. + resilient channels @ 24" o.c. + 2 layers ½" type X gypsum	>60 ⁵	
		CLT 3-ply (3.07") + 2x3 studs @ 24" o.c. + 2 layers ½" type X gypsum	>60 ⁵	
CLT 3-ply (3.07") + ½" air gap + 2x3 studs @ 24" o.c. + 2 layers ½" type X gypsum	1" insulation	CLT 3-ply (3.07")	>60 ⁵	20
		CLT 3-ply (3.07") + 2 layers ½" type X gypsum	>60 ⁵	
		CLT 3-ply (3.07") + 2x2 studs @ 16" o.c. + 2 layers ½" type X gypsum	>60 ⁵	
		CLT 3-ply (3.07") + 2x2 studs @ 24" o.c. + 2 layers ½" type X gypsum	>60 ⁵	
		CLT 3-ply (3.07") + 2x2 studs @ 16" o.c. + resilient channels @ 24" o.c. + 2 layers ½" type X gypsum	>60 ⁵	
		CLT 3-ply (3.07") + 2x3 studs @ 24" o.c. + 2 layers ½" type X gypsum	>60 ⁵	
		CLT 3-ply (3.07") + ½" air gap + 2x3 studs @ 24" o.c. + 2 layers ½" type X gypsum	>60 ⁵	
CLT 3-ply (3.07") + 2x2 studs @ 16" o.c. + resilient channels @ 24" o.c. + 2 layers ½" type X gypsum	1" insulation	CLT 3-ply (3.07")	>60 ⁵	20
		CLT 3-ply (3.07") + 2 layers ½" type X gypsum	>60 ⁵	
		CLT 3-ply (3.07") + 2x2 studs @ 16" o.c. + 2 layers ½" type X gypsum	57 ⁵	
		CLT 3-ply (3.07") + 2x2 studs @ 24" o.c. + 2 layers ½" type X gypsum	>60 ⁵	
		CLT 3-ply (3.07") + 2x2 studs @ 16" o.c. + resilient channels @ 24" o.c. + 2 layers ½" type X gypsum	>60 ⁵	
CLT 3-ply (3.75-4.5")	1.18" mineral wool	CLT 3-ply (3.75-4.5")	48-50 ⁸	6

Table 8 Continued: Double CLT Wall

Left Side CLT + Finish	Between CLT Panels	Right Side CLT + Finish	STC ¹	Source
CLT 3-ply (3.75-4.5") + 5/8" gypsum board	1.18" mineral wool	CLT 3-ply (3.75-4.5") + 5/8" gypsum board	55 ⁸	6
	2.36" mineral wool		60 ⁸	

Table 8 Notes:

1. All STC tests performed in accordance with ASTM E 90 unless otherwise noted below. All IIC tests performed in accordance with ASTM E 492 unless otherwise noted below. See end of document for sources and referenced test reports.
2. ASTC field tests performed in accordance with ASTM E 336. AIIC field tests performed in accordance with ASTM E 1007.
3. IIC tests not performed in accordance with a singular test standard. Test measurement method used a combination of ASTM E492 and ASTM 1007 per acoustical mat product manufacturer.
4. FSTC field test performed in accordance with ASTM E 336. AIIC field test not performed in accordance with ASTM E 1007 (inadequate number of measurements).
5. STC and IIC noted is a prediction based on the ISO 15712-1 prediction method as noted in the referenced test report.
6. STC and IIC noted is based on floor zone testing procedures that are modifications of ASTM E90 and E492 test and do not fully conform with these test standards per acoustical mat product manufacturer and as noted in the referenced test report.
7. Actual thickness of CLT in this test was 6.3" (160 mm)
8. Assemblies included in the 1st edition of the CLT Handbook are included herein due to their legacy use. However, the testing standards used for these assemblies are European and direct correlation to IBC-referenced ASTM standards is not currently available.

1. http://www.maxxon.com/brochures/Fire_Sound_Manual_9-18.pdf (Maxxon / Intertek Report #'s F1177.02-201-10, F1177.03-201-10, F1177.04-201-10, G9088.06-201-10-R0, G9088.01-201-10-R1, G9088.02-201-10-R1, G9088.03-201-10-R1, G9088.04-201-10-R1, G9088.05-201-10-R1, H6109.19-201-10-R0, H6109.15-201-10-R0, H6109.16-201-10-R0, H6109.17-201-10-R0, D7299.01-201-10, Maxxon / Stork / Twin City Testing Corp Report #'s 3018 02 31573.6, 3018 02 31573.4, 3018 02 31573.3, 30160-04-62432, 30160-04-62665)
2. <http://pliteq.com/downloads/geniemat-ff/GenieMat%20FF%20Brochure.pdf> (Pliteq / Intertek Report #'s F5500.08-113-11-R0, # F5500.10-113-11-R0, # F6279.14-113-11-R1, Pliteq / NGC Report #'s NGC 5014049, 5014082, 7014060, 7014109)
3. <https://www.regupol.com/test-reports/pdfs/A1-008253.pdf>
4. <https://www.acousti-tech.com/Design/PDF/mass-timber-guide.pdf>
5. Pliteq / Intertek Report # F5500.11-113-11-R0 (contact WoodWorks for additional information)
6. CLT Handbook, Chapter 9: <https://www.thinkwood.com/products-and-systems/cross-laminated-timber-clt-handbook>
7. Pliteq / Intertek Report #G6527.02-113-11-R0 (contact WoodWorks for additional information)
8. Pliteq / Intertek Report #G6527.01-113-11-R0 (contact WoodWorks for additional information)
9. Maxxon / WEAL Report # F17-2081 (contact WoodWorks for additional information)
10. FPIInnovations Report # 301012153-Task 11.1 (contact WoodWorks for additional information)
11. <http://kineticsnoise.com/arch/tests/wood-framed.html> (Kinetics / Acentech Report # AT001108)
12. https://issuu.com/rothoblaas/docs/2018_05_soundproofing_solutions-en?e=18207635/61793322
13. http://www.maxxon.com/brochures/MXN_SmartLam_7-18.pdf
14. USG / Intertek Report # I5203.20-113-11-R0 (contact WoodWorks for additional information)
15. USG / Intertek Report # I1898.01-113-11-R0 (contact WoodWorks for additional information)
16. USG / Intertek Report # I1898.02-113-11-R0 (contact WoodWorks for additional information)
17. Pliteq / Intertek Report # A1-013877.1 (contact WoodWorks for additional information)
18. Pliteq / Intertek Report # A1-013877.2 (contact WoodWorks for additional information)
19. Pliteq / Intertek Report # A1-013877.3 (contact WoodWorks for additional information)
20. <https://nparc.nrc-cnrc.gc.ca/eng/view/fulltext/?id=0dd15eec-b02e-4fb5-b8c6-aca331051d1d>
21. <https://nparc.nrc-cnrc.gc.ca/eng/view/fulltext/?id=9e3b39be-e0ed-415b-9649-3e7ec228f52c>
22. <https://www.thinkwood.com/wp-content/uploads/2018/10/19-Framework-Acoustic-Testing-and-Wood-Supply.pdf>
23. Kinetics / Intertek Report # I8483.01-113-11-R0 (contact WoodWorks for additional information)
24. Kinetics / Intertek Report # I8483.03-113-11-R0 (contact WoodWorks for additional information)
25. Kinetics / Intertek Report # I8483.02-113-11-R0 (contact WoodWorks for additional information)
26. Kinetics / Cavanaugh Tocci Associates Report # AT001071 (contact WoodWorks for additional information)
27. Kinetics / Intertek Report # I8483.04-113-11-R1 (contact WoodWorks for additional information)
28. Maxxon / WEAL Report # F17-2084 (contact WoodWorks for additional information)
29. Pliteq / Intertek Report # F5500.09-113-11-R0 (contact WoodWorks for additional information)
30. Pliteq / Intertek Report # F5500.16-113-11-R0 (contact WoodWorks for additional information)
31. Pliteq / Intertek Report # F6279.11-113-11-R1 (contact WoodWorks for additional information)
32. Pliteq / Intertek Report # G1707.04-113-11-R0 (contact WoodWorks for additional information)

33. Pliteq / Intertek Report # G1707.05-113-11-R0 (contact WoodWorks for additional information)
34. Pliteq / Intertek Report # G1707.06-113-11-R0 (contact WoodWorks for additional information)
35. Pliteq / Intertek Report # E5958.03-113-11-R0 (contact WoodWorks for additional information)
36. Pliteq / Intertek Report # E5958.04-113-11-R0 (contact WoodWorks for additional information)
37. Pliteq / Intertek Report # H6150.61-113-11-R0 (contact WoodWorks for additional information)
38. Pliteq / Intertek Report # E5958.05-113-11-R0 (contact WoodWorks for additional information)
39. Pliteq / Intertek Report # E5958.06-113-11-R0 (contact WoodWorks for additional information)
40. Pliteq / Intertek Report # E5958.07-113-11-R0 (contact WoodWorks for additional information)
41. Pliteq / Intertek Report # F2761.07-113-11-R0 (contact WoodWorks for additional information)
42. Pliteq / Intertek Report # F2761.08-113-11-R0 (contact WoodWorks for additional information)
43. Pliteq / Intertek Report # F2761.09-113-11-R0 (contact WoodWorks for additional information)
44. Pliteq / Intertek Report # F6279.12-113-11-R2 (contact WoodWorks for additional information)
45. Pliteq / Intertek Report # F6279.13-113-11-R1 (contact WoodWorks for additional information)
46. Pliteq / NGC Report # 5014141 (STC test), 7014194 (IIC test) (contact WoodWorks for additional information)
47. Pliteq / NGC Report # 5014143 (STC test), 7014196 (IIC test) (contact WoodWorks for additional information)
48. Pliteq / NGC Report # 5014144 (STC test), 7014199 (IIC test) (contact WoodWorks for additional information)
49. Pliteq / Intertek Report #G6527.03-113-11-R0 (contact WoodWorks for additional information)
50. Pliteq / Intertek Report #G6527.04-113-11-R0 (contact WoodWorks for additional information)
51. Pliteq / Intertek Report #G6527.05-113-11-R0 (contact WoodWorks for additional information)
52. Pliteq / Intertek Report #G6527.06-113-11-R0 (contact WoodWorks for additional information)
53. Pliteq / Intertek Report #G6527.08-113-11-R0 (contact WoodWorks for additional information)
54. Pliteq / Intertek Report #G6527.09-113-11-R0 (contact WoodWorks for additional information)
55. Pliteq / Intertek Report #G6527.10-113-11-R0 (contact WoodWorks for additional information)
56. Pliteq / NGC Report # 5015105 (STC test), 7015157 (IIC test) (contact WoodWorks for additional information)
57. <http://kineticsnoise.com/arch/tests/wood-framed.html> (Kinetics / DLAA Report # AT001034)
58. USG / Intertek Report # I1898.03-113-11-R0 (contact WoodWorks for additional information)
59. USG / Intertek Report # I1898.04-113-11-R0 (contact WoodWorks for additional information)
60. USG / Intertek Report # I1898.05-113-11-R0 (contact WoodWorks for additional information)
61. USG / Intertek Report # I1898.06-113-11-R0 (contact WoodWorks for additional information)
62. USG / Intertek Report # I5203.18-113-11-R0 (contact WoodWorks for additional information)
63. USG / Intertek Report # I5203.19-113-11-R0 (contact WoodWorks for additional information)
64. USG / Intertek Report # I5203.21-113-11-R0 (contact WoodWorks for additional information)
65. USG / Intertek Report # I5203.22-113-11-R0 (contact WoodWorks for additional information)
66. USG / Intertek Report # I5203.23-113-11-R0 (contact WoodWorks for additional information)
67. FPIInnovations Report # 301012153-Task 8.1 (contact WoodWorks for additional information)
68. <https://nrc-publications.canada.ca/eng/view/fulltext/?id=e265c6cd-808a-4528-a6ba-0a95924431bb>
69. <https://fpinnovations.ca/Extranet/Pages/AssetDetails.aspx?item=/Extranet/Assets/ResearchReportsWP/16779.pdf#.XC9-Qy2ZMUu>
70. <https://fpinnovations.ca/Extranet/Pages/AssetDetails.aspx?item=/Extranet/Assets/ResearchReportsWP/16780.pdf#.XC9-kC2ZMUv>
71. <https://fpinnovations.ca/Extranet/Pages/AssetDetails.aspx?item=/Extranet/Assets/ResearchReportsWP/16795.pdf#.XC9-iy2ZMUu>

Disclaimer

The information in this inventory, including, without limitation, references to information contained in other publications, test reports or made available by other sources (collectively “information”) should not be used or relied upon for any application without competent professional examination and verification of its accuracy, suitability, code compliance and applicability by a licensed engineer, architect or other professional. Neither the Wood Products Council nor its employees, consultants, nor any other individuals or entities who contributed to the information make any warranty, representative or guarantee, expressed or implied, that the information is suitable for any general or particular use, that it is compliant with applicable law, codes or ordinances, or that it is free from infringement of any patent(s), nor do they assume any legal liability or responsibility for the use, application of and/or reference to the information. Anyone making use of the information in any manner assumes all liability arising from such use.

This inventory is intended to be a design aid in the selection of materials used in mass timber wall or floor/ceiling assemblies for the purpose of achieving acoustical performance. This inventory is not a guarantee that a given assembly performs to a certain acoustical level. In some instances, this inventory references specific product names (i.e., Maxxon Acousti-Mat® ¾). In other instances, generic product names are used (i.e., 2” gypsum topping). Also, in some situations, the products used in a tested assembly have changed names even though the product itself has remained unchanged. The referenced test reports and manufacturer’s information should be consulted as the final source for the specific conditions, materials and installation processes used for all components referenced herein.

The designer is responsible for confirming that all materials used in an assembly meet code requirements for acoustics as well as other performance criteria such as fire resistance, structural loadings, and durability.

Most tested assemblies referenced in this inventory were tested by a third-party testing agency in a laboratory or in the field (i.e., an agency not affiliated with a product manufacturer). However, some assemblies were tested by the manufacturer of a product in the assembly.

Mass of products used in an assembly can influence the acoustical performance. In most cases, the relative thickness of materials used in a tested assembly are noted in this inventory. However, it is up to the designer to verify that the density of those materials tested (CLT panel, concrete topping, etc.) match what is proposed for the assembly being designed and constructed.

Most tested assemblies referenced in this inventory were tested in a laboratory in accordance with ASTM E90 and ASTM E492. However, as noted in each table’s footnotes, some tests were conducted in the field in accordance with ASTM E336 and ASTM E1007 or other noted testing protocols. Field tests are based on the specific conditions present in a given environment and take into account other influencing factors such as flanking paths (this is one of the reasons that IBC 2015 Sections 1207.2 and 1207.3 permit lower STC and IIC values if field tested). As noted in ASTM E336 and ASTM E1007, even when using an exact assembly from a field test in a different building or a different area in the same building, results can vary: *“The results stated in this report represent only the specific construction and acoustical conditions present at the time of the test. Measurements performed in accordance with this test method on nominally identical constructions and acoustical conditions may produce different results.”*

For free project assistance or for any questions related to the assemblies referenced in this inventory, contact help@woodworks.org.

For questions related to a specific product referenced herein, contact the appropriate product manufacturer:

Maxxon Corporation
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An advertisement for WoodWorks. The top left shows an aerial view of a large multi-story building under construction, with extensive wooden framing. The top right shows the interior of a modern building with a high ceiling, large windows, and wooden columns. A person is standing near the windows. The bottom half of the advertisement has a dark background with white text and a green bar on the right containing the WoodWorks logo.

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