

Floor/ Ceiling Assemblies — Concrete Subfloor

Test Reference	Subfloor	Suspended Ceiling	Enkasonic Overlay	Floor Covering	STC	FSTC	IIC	FIIC
CTI #6	8" slab	No	7/16" Wonder-Board	Tile	59	54*	52	47*
CTI #8	8" slab	Yes	1 1/4" mortar bed	Tile	61	56*	62	57*
CTI #11	8" slab	No	7/16" Wonder-Board R	Tile	59	54*	52	47*
CTI #12	8" slab	No	1 1/4" mortar bed	Tile	60	55*	54	49*
AKZO C-1	8" slab	Yes	1 1/4" mortar bed	Vinyl Tile	61	56*	67	62*
AKZO C-2	8" slab	Yes	1 1/4" mortar bed	Carpet & Pad	61	56*	79	74*
AKZO C-3	8" slab	Yes	1 1/4" mortar bed	5/16" wood parquet	61	56*	65	60*
AKZO C-4	8" slab	Yes	2 layers 3/8" plywood	3/4" T&G hardwood	60	55*	61	56*
AKZO C-5	7" slab	No	7/16" Wonder-Board	Tile			59*	54
AKZO C-5	7" slab	No	1 1/4" mortar bed	Tile			59*	54
AKZO C-5	7" slab	Soffit	7/16" Wonder-Board	Tile/Marble ¹			63*	58
AKZO C-5	7" slab	No	No Enkasonic or overlay	Bare Slab	56*	51	36*	31
AKZO C-6	6" slab	No	7/16" Wonder-Board	Tile			58*	53
AKZO C-7	6" slab	Yes	7/16" Wonder-Board 1/4" Cork	3/4" Marble			74*	69
AKZO C-7	6" slab	Yes	7/16" Wonder-Board	3/4" Marble			76*	71
AKZO C-7	6" slab	Yes	7/16" Wonder-Board 1/4" Amcel Foam 1/4" Cork	3/4" Marble			76*	71
AKZO C-7	6" slab	Yes	7/16" Wonder-Board 1/4" Amcel Foam	3/4" T&G hardwood			69*	64
AKZO C-7	6" slab	Yes	3/8" plywood 7/16" Wonder-Board 1/4" Amcel Foam	3/4" T&G hardwood			67*	62
AKZO C-8	6" slab	Yes	3/4" plywood 7/16" Wonder-Board	3/4" T&G hardwood	64*	59	67*	62
AKZO C-9	6" slab	No	7/16" Wonder-Board	Tile/Marble			60*	55
AKZO C-9	6" slab	No	No Enkasonic or overlay	Tile/Marble			35*	30
AKZO C-10	6" slab	No	2 layers 3/8" plywood	3/4" T&G hardwood	59*	54	58*	53
AKZO C-11	4" slab	No	7/16" Wonder-Board	Tile/Marble	65	60*	62	57*
NGC 5004027	2 1/2"	Yes	1 1/2" Gyp-Crete 2000	Tile	54	49*		
NGC 7004078	2 1/2"	Yes	1 1/2" Gyp-Crete 2000	Tile			54	49*
NGC 7004079	2 1/2"	Yes	1 1/2" Gyp-Crete 2000	Vinyl			53	48*
NGC 7004080	2 1/2"	Yes	1 1/2" Gyp-Crete 2000	T&G laminate			55	50*
NGC 7004084	3 5/8"	Yes	1 1/2" Gyp-Crete 2000	T&G laminate oak			51	46*
STORK 06-10-03	3"	No	No overlay	None	63*	58	60*	55

¹Hard grout was used around the perimeter of the room

*Estimated contour derived from adding or subtracting 5 decibels in accordance with provisions in most building codes.

Testing Labs

AKZO C-1, C-2, C-3, C-4	RIVERBANK ACOUSTICAL LAB, 1982, Geneva, IL
AKZO C-5	DAVY, 1981, Wilshire Blvd., Los Angeles, CA
AKZO C-6	ACCULAB, 1981, Columbus, OH
AKZO C-7	SHINER, 1983, Magnificent Mile, Chicago, IL
AKZO C-8	SHINER, 1981, Turnberry Isle, Miami, FL
AKZO C-9	CAPE-DIXSON, 1989, Park Place, Atlanta, GA
AKZO C-10	CAPE-DIXSON, 1989, Park Place, Atlanta, GA
AKZO C-11	RIVERBANK ACOUSTICAL LAB, 1990, Geneva, IL

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Floor/ Ceiling Assemblies — Wood Subfloor

Test Reference	Subfloor	Suspended Ceiling	Enkasonic Overlay	Floor Covering	STC	FSTC	IIC	FIIC
CTI #5	5/8" plywood	Yes	7/16" Wonder-Board	Tile	62	57*	58	53*
CTI #7	5/8" plywood	Yes	1 1/4" mortar bed	Tile	60	55*	55	50*
CTI #13	5/8" plywood	Yes	1 1/4" mortar bed	Tile	61	56*	55	50*
GYP #1	3/4 T&G plywood	Yes	1 1/2" Gyp-Crete 2000	Foam-backed parquet			55	50*
AKZO W-1	3/4" plywood	Yes	1" Gyp-Crete 2000 ²	Cushioned Tile			61*	56
AKZO W-1	3/4" plywood	Yes	No Enkasonic Gyp-Crete 2000	Cushioned Tile			53*	48
AKZO W-2	3/4" plywood	Yes ³	1" Gyp-Crete 2000 ²	Vinyl Tile	62*	57	57*	52
AKZO W-2	3/4" plywood	Yes	No Enkasonic Gyp-Crete 2000	Vinyl Tile	56*	51	49*	44
AKZO W-3	3/4" plywood	Yes ³	1 1/4" mortar bed	Tile			64*	59
AKZO W-3	3/4" plywood	Yes	1 1/4" mortar bed	Tile			62*	57
AKZO W-4	5/8" plywood	Yes	1 1/2" Gyp-Crete 2000	Tile thinset to Nobleseal TSR	59	54*	57	52*
AKZO W-5	3/4" plywood	Yes	1 1/2" Gyp-Crete 2000	Tile			57*	52
AKZO W-5	3/4" plywood	Yes	1 1/2" Gyp-Crete 2000	None	63*	58	57*	52
AKZO W-5	3/4" plywood	Yes	No Enkasonic Gyp-Crete 2000	None	58*	53	44*	39
GYP 729-6	3/4" T&G OSB	Yes	1 1/2" Gyp-Crete 2000	Sheet Vinyl			55	
GYP 729-7	3/4" T&G OSB	Yes	1 1/2" Gyp-Crete 2000	Carpet & Pad			83	
GYP 729-13	3/4" T&G OSB	Yes	1 1/2" Gyp-Crete 2000	None	59			
NGC 5004024	3/4" T&G OSB	Yes	1 1/2" Gyp-Crete 2000	Tile	58	53*		
NGC 7004073	3/4" T&G OSB	Yes	1 1/2" Gyp-Crete 2000	Tile			59	54*
NGC 7004081	3/4" T&G OSB	Yes	1 1/2" Gyp-Crete 2000	Vinyl			55	50*
NGC 7004082	3/4" T&G OSB	Yes	1 1/2" Gyp-Crete 2000	T&G laminate			57	52*
NGC 7004083	3/4" T&G OSB	Yes	1 1/2" Gyp-Crete 2000	T&G laminate oak			57	52*
RAL IN00-12	1 5/8" T&G Sturdiflor	Yes	1" Levelrock Sys. 1	Vinyl			55	50*
RAL IN00-13	1 5/8" T&G Sturdiflor	Yes	1" Levelrock Sys. 1	Carpet			73	68*
RAL IN00-14	1 5/8" T&G Sturdiflor	Yes	1" Levelrock Sys. 1	Ceramic Tile (not grouted)			56	51*
RAL IN00-16	1 5/8" T&G Sturdiflor	Yes	1" Levelrock Sys. 2	Vinyl			55	50*
RAL TL00-76	1 5/8" T&G Sturdiflor	Yes	1" Levelrock Sys. 1	None	61	56*		
RAL TL00-97	1 5/8" T&G Sturdiflor	Yes	1" Levelrock Sys. 2	None	60	55*		

²For structural purposes, Gyp-Crete 2000 needs to be minimum 1 1/2" thick when placed over Enkasonic

³Independently supported ceiling joists with lath and plaster ceiling

*Estimated contour derived from adding or subtracting 5 decibels in accordance with provisions in most building codes.

Testing Labs

GYP # 1	RIVERBANK ACOUSTICAL LAB, 1985, Geneva, IL
AKZO W-1	SHINER, 1982, Lake Barrington Shores, IL
AKZO W-2	SHINER, 1982, Lake Barrington Shores, IL
AKZO W-3	DAVY, 1984, Manhattan Beach, CA
AKZO W-4	RIVERBANK ACOUSTICAL LAB, 1988, Geneva, IL
AKZO W-5	CAPE-DIXSON, 1988, Lake Club, Atlanta, GA
GYP 729-6, 7, 13	Gyp-Crete Corp., Southview Gables, St. Paul, MN

CTI listings refer to the Ceramic Tile Institute of America's Sound-Rated Floor Systems as per bulletin CTI-R4-113-79. All CTI tests were done at RIVERBANK ACOUSTICAL LAB., Geneva, IL.

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