

CONSTRUCTION ASSEMBLIES

ASSEMBLY I. D. ELEMENTS MATERIALS

Wall Assemblies

Exterior	W-1	Outside	Level One: Fin. grade to 3'-6" above fin. grade (snow, ice & plow protection)		
			finish material & structure	Poured-in-place Concrete (100% & 90% estimate OR Stucco w/ heavy duty lathe (75%) - extension of foundation or basement wall	
			barrier	building wrap	
			framing for insulation	2x finger jointed wd studs	
			insulation	cotton batt insulation - R13 or R-19 between studs	
			barrier	vapor barrier	
			finish material	gypsum wallboard (standard material w/ recycled content)	
			finish	paint	
			Inside	Level One: From 3'-6" above fin. grade to top of wall	
				finish	stain
		finish material		fiber cement board planks (siding or board & batten or shingles)	
		barrier		building wrap	
		Insulation		Continuous rigid insulation - R-7 min.	
		sheathing		1/2" plywood	
		structure		2x finger jointed wd studs	
		insulation		cotton batt insulation - R13 or R-19 between studs	
		barrier		vapor barrier	
		finish material		gypsum wallboard (standard material w/ recycled content)	
		finish	paint		

Exterior	W-2	Outside	finish	stain
			finish material	fiber cement board planks (siding or board & batten or shingles)
			barrier	building wrap
			insulation	Continuous rigid insulation - R-7 min.
			sheathing	1/2" plywood
			structure	2x finger jointed wd studs
			insulation	cotton batt insulation - R13 or R-19 between studs
			barrier	vapor barrier
			finish material	gypsum wallboard (standard material w/ recycled content)
			finish	paint
Inside				

Exterior	W-3	Outside	Thermal Mass Wall	
			finish	stain
			finish material	fiber cement board planks (siding or board & batten or shingles)
			insulation	rigid insulation
			furring	wood
			barrier	building wrap
			structure	12" cmu block
			furring	gyp bd hat channel
			finish material	gypsum wallboard (standard material w/ recycled content)
			finish	paint
Inside				

ASSEMBLY	I. D.	ELEMENTS	MATERIALS	
Exterior	W-4	Outside	Storefront Wall	
		Inside	Storefront Wall Kawneer Trifab VG w/ thermal break OR EnCORE	
Interior	W-5	Inside	Typical Wall	
			finish	paint
			finish material	gypsum wallboard (standard material w/ recycled content)
			structure	2x finger jointed wd studs; plywood sheathing @ shear walls
			finish material	gypsum wallboard (standard material w/ recycled content)
Interior	W-5a	Inside	Moderate Acoustical Isolation (STC 52, 100 & 90% Estimate) @ private offices	
			finish	paint
			finish material	5/8" gypsum wallboard (standard material w/ recycled content)
			finish material	5/8" gypsum wallboard (standard material w/ recycled content)
			acoustical insul.	6" cotton batt insulation
			structure	2x finger jointed wd studs; staggered studs
			finish material	5/8" gypsum wallboard (standard material w/ recycled content)
Interior	W-5b	Inside	Moderate Acoustical Isolation (STC 46, 75% Estimate) @ private offices	
			finish	paint
			finish material	5/8" gypsum wallboard (standard material w/ recycled content)
			acoustical insul.	6" cotton batt insulation
			structure	2x finger jointed wd studs; staggered studs
			finish material	5/8" gypsum wallboard (standard material w/ recycled content)
Interior	W-5c	Inside	High Acoustical Isolation (STC 56, 100 & 90% Estimate) @ executive offices, conference rooms, interview room and meeting rooms	
			finish	paint
			finish material	gypsum wallboard (standard material w/ recycled content)
			finish material	gypsum wallboard (standard material w/ recycled content)
			acoustical insul.	6" cotton batt insulation
			structure	2x finger jointed wd studs; staggered studs
			finish material	5/8" gypsum wallboard (standard material w/ recycled content)
			finish material	5/8" gypsum wallboard (standard material w/ recycled content)
Interior	W-5d	Inside	High Acoustical Isolation (STC 52, 75% Estimate) @ executive offices, conference rooms, interview room and meeting rooms	
			finish	paint
			finish material	5/8" gypsum wallboard (standard material w/ recycled content)
			finish material	5/8" gypsum wallboard (standard material w/ recycled content)
			acoustical insul.	6" cotton batt insulation
			structure	2x finger jointed wd studs; staggered studs
			finish material	5/8" gypsum wallboard (standard material w/ recycled content)

ASSEMBLY	I. D.	ELEMENTS	MATERIALS	
Interior	W-6	Inside	Thermal Mass (surface facing atrium w/ wall mass exposed)	
			finish	paint
			structure	12" cmu block
			hanging clip	gyp bd hat channel
			finish material	gypsum wallboard (standard material w/ recycled content)
			finish	paint
		Inside		
Interior	W-7	Inside	Public Toilet Rooms, Office Toilet Rooms	
			finish	Ceramic tile to 5'-4" w/ paint above
			finish material	greenboard
			structure	2x finger jointed wd studs; plywood sheathing @ shear walls
Interior	W-8	Inside	Catering Kitchen, Office Breakroom	
			finish	paint on gyp wallboard
			finish material	FRP over greenboard from Fin. Fl. to 5'-4" Above 5'-4" gypsum wallboard
			structure	2x finger jointed wd studs; plywood sheathing @ shear walls
Ceiling Assemblies				
Interior	C-1		Exposed to structure above	
			finish material	none
Interior	C-2		Acoustical Tile Office Space: Private Offices, Meeting Rooms, Conference Rooms	
			finish material	Lay-in Acoustical Ceilings (100 & 90% Estimate: NRC of 0.80; 75% Estimate: NRC of 0.55)
			support structure	resilient hangers
Interior	C-3		Acoustical Clouds Open Office Workstation Clusters; Conference Meeting Rooms, Multipurpose Room	
			acoustical insul.	6" cotton batt insulation
			finish material	acoustical clouds (NRC 0.80, stretch fabric over supporting framework)
			support structure	resilient hangers
Interior	C-4		Gypsum Board Exhibit Hall	
			finish material	2" thick spray-on-acoustical finish (NRC .090)
			support structure	resilient hangers
Interior	C-5	Top	Gypsum Board Stand-by Power Generator Room	
			acoustical insul.	6" cotton batt insulation
			finish material	5/8" gypsum wallboard (standard material w/ recycled content)
			finish material	5/8" gypsum wallboard (standard material w/ recycled content)
			support structure	resilient hangers
Floor Assemblies				
	F-1	top	Basement Level	
			structure	6" poured-in-place concrete
			substrate	2" sandbed
			insulation	rigid insulation - R-7 min.
			barrier	vapor barrier
				bottom

ASSEMBLY	I. D.	ELEMENTS	MATERIALS
F-2	top	Level One: Conference & Visitor Center	
		finish material	carpet tiles- Green Label Plus certified
		flooring	raised floor system (18" plenum w/ through floor air distribution)
		structure	6" poured-in-place concrete
		substrate	2" sandbed
		insulation	rigid insulation - R-30 continuous, 4" min. at any one point
		barrier	vapor barrier
	bottom		
F-3	top	Level Two: Conference & Visitor Center	
		finish material	carpet tiles
		flooring	raised floor system (18" plenum w/ through floor air distribution)
		topping slab	4" poured-in-place concrete slab
		structure	2" metal deck supported on W-sections (see structural)
		fire protection	spray-on fire-proofing/ gwb beam wrap ?
			bottom
F-4	top	Level One, Two and Three: Office	
		finish material	sealer
		topping slab	4" poured-in-place concrete w/ in-slab radiant heat tubes
		structure	2" metal deck supported on W-sections (see structural)
		fire protection	spray-on fire-proofing/ gwb beam wrap ?
	bottom		
F-4a	top	Level One, Two and Three: Office (acoustical performance)	
		finish material	linoleum
		topping slab	4" poured-in-place concrete w/ in-slab radiant heat tubes
		structure	2" metal deck supported on W-sections (see structural)
		fire protection	spray-on fire-proofing/ gwb beam wrap ?
	bottom		

Roof Assemblies

R-1	top		
		finish material	EPDM roofing
		insulation	rigid insulation - R-30 continuous, 4" min. at any one point
		substrate	3/4" OSB sheathing
		barrier	vapor barrier
		structure	2" metal deck supported on W-sections (see structural)
		fire protection	spray-on fire-proofing/ gwb beam wrap ?
	bottom		

Exterior Glazed Openings

GL-1	Glazing		
		North, East, South and West	PPG Solarban 60, double pane, Argon gas filled or equivalent