

5.	Equipment above the Ceilings:
5. A.	Provide access to all equipment. Where mechanical units are installed and concealed above new ceilings, access for servicing must be provided. All other alternatives for locating units should be exhausted prior to installing units above the ceiling or on the roof. Size, location and type of access panels must be coordinated with location and requirements of the equipment and so indicated on the construction documents.
5. B.	Occasional access may be through acoustical lay-in tile panels in a suspended T-bar grid ceiling. Access for filter replacement or other frequent access requirements should be by hinged panels, or use lay-in material less subject to damage.
5. C.	Grid pattern of new T-bar ceilings and location of mechanical equipment must be coordinated and shown to avoid T-bar obstruction where clear access is required. Indicate required clear access areas on the construction documents.
5. D.	Acoustical Lay-In Panels:
5. D. 1.	Fine fissured texture with Humigard Plus no-slag technology. 24-inch square units, with square edges, unless otherwise approved by the District.
5. D. 2.	Finish and color: Factory applied, washable latex acrylic, mildew and mold inhibiting Bio Block paint on Dura Brite acoustically transparent membrane in manufacturer's standard white color, unless otherwise approved by the District.
5. D. 3.	Acoustical ratings: <ul style="list-style-type: none"> - Noise Reduction Coefficient (NRC) of point seven (0.70). - Ceiling Attenuation Class (CAC) of thirty-five (35). - Light reflectance of point nine (0.90).

Section 09 60 00 - FLOORING CRITERIA

1.	Flooring Type & Location
1. A.	Linoleum or bio-based tile flooring:
1. A. 1.	Acceptable Manufacturers: Mannington, Armstrong or equal. Proposed flooring should be a "no-wax", "no-polish" type to reduce maintenance protocol. Colors to be approved by the District. Ten (10%) Percent of each color specified shall be retained by the District for backstock.
1. A. 2.	Linoleum or bio-based tile flooring locations:
1. A. 2. a.	Administrative Office – Public Area Lobby (situation dependent).
1. A. 2. b.	Cafeteria.
1. A. 2. c.	Classrooms.
1. A. 2. d.	Circulation hallways (reviewed on a case by case basis).
1. A. 2. e.	Entry Vestibules (reviewed on a case by case basis).
1. A. 2. f.	Intermediate Data Frame Room (IDF).

1. A. 2. g.	Main Distribution Frame Room (MDF).
1. A. 2. h.	Media Center.
1. A. 2. i.	Multi-Use Facilities (except aiseways which are carpeted).
1. A. 2. j.	Nurse's Room.
1. A. 2. k.	Nurse's Restroom.
1. A. 2. l.	Sink/counter (wet).
1. A. 2. m.	Staff restrooms areas.
1. A. 2. n.	Faculty and Administrative Storage Areas (interior).
1. A. 2. o.	Supply Rooms.
1. A. 2. p.	Warming Kitchens.
1. A. 2. q.	Work Rooms.
1. A. 3.	Vinyl Composition Tile (VCT) flooring may be provided at the same locations suitable for linoleum flooring. Proposed VCT should include a minimum post-consumer recycled content of 25%. Acceptable manufacturers are Mannington, Armstrong, or approved equal. Ten (10%) percent of each color specified shall be retained by the District for back stock.
1. B.	Carpet Flooring:
1. B. 1.	Provide carpet tiles and floor sealer (24 oz. carpet face, 1/2" pile height maximum, with hardback tile capable of being installed over moisture content level of 95% RH).
1. B. 2.	Acceptable manufacturers: C&A / Tandus, Interface, or approved equal. Ten (10%) percent of each color specified shall be retained by the District for back stock.
1. B. 3.	Carpet tile flooring locations:
1. B. 3. a.	Administrative Staff Area.
1. B. 3. b.	Conference Rooms.
1. B. 3. c.	Faculty Lounge (except at wet areas).
1. B. 3. d.	Library.
1. B. 3. e.	Offices.
1. B. 3. f.	Multi-Use (aisles).

1. C.	Flooring and Wall Tile:
1. C. 1.	Provide sloped floor to drain ceramic tile flooring and wainscot with cement board backer per American Tile Institute Standards in the following locations (at concrete floors provide 6" concrete curb at all new walls). Ceramic tile on floor to shall be 12" x 24" x 3/8", unpolished; Ceramic tile on walls shall be 6" x 6" x 1/4", unpolished and extend to finished ceiling. Accent colors shall be limited to 2 floor and 2 wall accents:
1. C. 2.	Flooring and Wall Tile locations:
1. C. 2. a.	All student toilet rooms. Staff toilets shall have 4" coved base in lieu of wainscot.)
1. C. 2. b.	Locker Shower Areas
1. C. 3.	Grout for ceramic tile shall be per the Tile Council of North America "Handbook for Ceramic, Glass, and Stone Tile Installation" for the particular application. Final grout color to be approved by the District.
1. D.	Quarry Tile Flooring:
1. D. 1.	At all new construction provide sloped to drain quarry tile flooring with integral sand finish and with quarry tile cove base per American Tile Institute Standards at the following locations (at concrete floors provide 6" concrete curb at all new walls):
1. D. 2.	Quarry Tile Flooring locations:
1. D. 2. a.	Kitchen.
1. E.	Sealed Concrete Flooring:
1. E. 1.	Provide sealed concrete (Concrete Sealant shall be solvent based, non-yellowing acrylic copolymer concrete curing, sealing, and dustproofing compound) at the following locations:
1. E. 2.	Sealed Concrete Flooring locations:
1. E. 2. a.	Locker Rooms.
1. E. 2. b.	Ball/Athletic Equipment Closets.
1. E. 2. c.	Heating/Mechanical Closets.
1. E. 2. d.	Play Equipment Closets.
1. E. 2. e.	Traffic Safety Equipment Closets.
1. E. 2. f.	Janitor's Closets, Maintenance Storage Rooms.
1. F.	Wood Flooring:
1. F. 1.	Species, color, and finish to be reviewed and approved by the District prior to specification.

1. F. 2.	Wood flooring locations:
1. F. 2. a.	Gymnasiums.
1. F. 2. a.	Dance and Aerobic Classrooms.
1. F. 2. a.	Squash, Handball and Racquetball.
1. F.	Rubber Flooring:
1. F. 1.	Rubber sheet flooring conforming to ASTM F1344, Class 1. Color, finish, and texture are to be reviewed and approved by the District prior to specification.
1. F. 2.	Acceptable manufacturers: Burke and Mondo Flooring or approved equal.
1. F. 3.	Rubber flooring may be proposed for high traffic areas, wet areas, sports surfaces, or areas where maximum slip-resistance or sound absorption is desired.
1. G.	Rubber base shall be four (4) inches high, top set in minimal 10'-0" lengths, covered; with pre-molded inside and outside corners throughout.

Section 09 80 00 – ACOUSTIC TREATMENT

1.	This section sets recommended standards for acoustical reverberation time (RT) for room types.		
1. A.	Materials for acoustical treatment are not limited to the above sections 09 20 00 – Wall Finishes Criteria, 09 50 00 – Ceiling Criteria, 09 60 00 – Flooring Criteria.		
1. B.	When additional acoustical treatments are necessary, including sound-absorptive / reflective panels, acoustic drapery / stretched-fabric wall systems, or other acoustical design solutions, material data and samples shall be presented to the District for approval.		
2.	Reverberation Time Assessment after construction.		
2. A.	The use of ISO 3382-1:2009 specifies methods for the measurement of reverberation time and other room acoustical parameters in performance spaces. It describes the measurement procedure, the apparatus needed, the coverage required, and the method of evaluating the data and presenting the test report.		
3.	Maximum Reverberation Time (T60) Schedule General Conditions:		
3. A.	Room Volume (Ft ³)	Teaching / Studying Space	Music* / Athletic Space
	350,000 Ft ³ (Approx. 100'x100'x35')	1.0 seconds	2.6 seconds
	35,000 Ft ³ (Approx. 45'x45'x17')	0.8 seconds	1.6 seconds
	3,500 Ft ³ (Approx. 20'x20'x8'-6")	0.6 seconds	1.2 seconds
	* Rooms designed expressly for the purposes of music performance should be designed with an acoustician to provide variable acoustics for speech intelligibility amplified sound, operatic and symphonic performances.		