

**ACCESSIBLE RAISED GLASS FLOOR SYSTEM****PART 1 - GENERAL**1.1 **QUALITY ASSURANCE**

1.1.1 Install accessible raised glass flooring by floor manufacturer's own forces or by an accredited franchised installer under the control and responsibility of floor manufacturer. Have a senior, qualified field representative on Site to direct the Work at all times.

**PART 2 - PRODUCTS**2.1 **ACCEPTABLE MANUFACTURER**

2.1.1 Provide accessible raised glass flooring system as shown on drawings manufactured by Camino Modular Systems Inc., 89 Carlingview Drive, Toronto, Ontario, Canada, Tel. (416) 675-2400, Fax (416) 675-2424.

2.2 **MATERIALS****2.2.1 Glass Access Panels:**

2.2.1.1 Basic construction of laminated glass consisting of 3 sheets (2 structural and 1 functional). Overall thickness of laminated panels shall depend on the specified panel width and length dimensions and shall be sufficient to withstand the uniform and concentrated loads outlined in 2.2.1.7 and 2.2.1.8 below. The panels shall be of tempered construction in conjunction with heat treatment processes to provide necessary loading safety factors.

The calculation of glass thickness for each application and span has been carried out by a qualified Structural Engineer.

2.2.1.2 Scratch Resistance: Glass panels shall be manufactured with a heat soak treatment to provide a scratch-resistant surface.

2.2.1.3 Impact Resistance: According to DIN 52290 A-3, Glazing is impact-resistant if it prevents thrown/hurled objects from penetrating. Impact-resistant glass must resist 3 times the impact of a 4 kg steel ball falling from a height of 9.5 m.

2.2.1.4 Cleansing Resistance: After 1000 washing cycles the glass shall have no optically discernible damage.

2.2.1.5 Dimensions and Quality: Class A safety glass made from clear sheet glass, in accordance with CAN/CGSB-12.2-M in regards dimensional tolerances and permissible defects for the dimensions and glass quality specified.

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2.2.1.6 Localized Warp: When tested, localized warp for rectangular glass shall not exceed 1.5 mm over any 300 mm span.

2.2.1.7 Uniform Load: Glass panel shall support a load of 250 lbs./sq. foot with center deflection not exceeding 0.060" when tested in accordance with CISCA test procedures.

2.2.1.8 Point Load: Glass panels shall support a concentrated load of 1000 lbs. applied through a 2" x 2" indenter at a point anywhere on the panel, with a deflection not exceeding 0.100", when tested in accordance with CISCA test procedures.

2.2.1.9 Safety:

.1 Should breakage occur, the glass panel shall remain structurally intact.

.2 When breakage occurs, no opening shall develop that would allow the passage of a 75 mm diameter steel sphere, having a mass of 1.8 kg when placed (not dropped) in the opening and permitted to remain for 1 second. When breakage occurs, the total mass of the 10 largest particles, obtained within 5 minutes after impact, shall not exceed the mass of 6500 mm<sup>2</sup> of the original specimen. The broken test specimen shall be placed in a horizontal position with the impacted side up, while remaining in the subframe, to determine passage of sphere.

2.2.2 Ensure panels are interchangeable and removable. Ensure panels are square within a tolerance of plus or minus 0.38 mm (0.015").

2.2.3 Pedestals: Steel pedestal base and head assemblies of height required, with vibration-proof locking device to maintain proper elevation. Adjustment of pedestal shall be through threaded steel stud. Ensure pedestal heads are of type to suit support system used. Tap 4 sides of pedestal heads required for bolted connections. Provide pedestals with plated finish. Pedestals to withstand a 7,000 lb axial load without failure when tested in accordance with CISCA test procedures.

2.2.4 Stringers: Bolted type, consisting of aluminum channels, tees, or box sections to provide completely braced and rigid assembly. Stringer surfaces in contact with glass panels to be covered with a resilient seal. Seal to be vinyl or neoprene material and function as a cushion between glass panels and understructure. Mid span of stringer shall withstand a 450 lb. point load without failure when tested in conjunction with CISCA test procedures.

2.2.5 Accessories and Options:

2.2.5.1 Plenum divider kits.

2.2.5.2 Fascia kits.

2.2.5.3 Patterned glass.

2.2.5.4 Frosted glass.

2.2.5.5 Carpet tile inserts.

2.2.5.6 Granite panel inserts.

2.2.5.7 Hardwood panel inserts.

2.2.5.8 Lighting kits.

**PART 3 - EXECUTION**

**3.1 INSTALLATION**

3.1.1 Install components in accordance with manufacturer's recommendations.

3.1.2 Finish floor height as shown on Drawings and level within a tolerance of plus or minus 3 mm in 3 m (1/8" in 10').

3.1.3 Ensure panels are easily removable by means of a lifting device.

**3.2 CLEANING AND PROTECTING**

3.2.1 Protect completed finished floor surface with 0.152 mm (6 mil) thick polyethylene sheets or heavy duty "Sisal Kraft" paper, taped and sealed at edges, or by other means acceptable to [Architect][Engineer][Owner].

3.2.2 Immediately before turning over to Owner, remove protection and dispose of same and leave floor in a clean condition, free from defects.

**END OF SECTION**

glass floor specification