

SECTION 09 69 33 – LOW PROFILE ACCESS FLOORING

NETFLOOR USA CR1000W Low Profile Access Floor System

PART 1 - GENERAL

1.1 SUMMARY

- A. A low profile cable management access flooring structure with access panels, base connectors to connect access panels, to form reticulated accessible cable trenches, and which covered and protected by cable trench caps.

1.2 PERFORMANCE REQUIREMENTS

- A. General: the low profile access flooring, when installed, structured with self-standing access panels, easily removable accessible cable trenches throughout in a grid pattern cable trenches, facilitating easy distribution, extension of electrical, networking and telecommunication cables, and accommodate outlet floor boxes, and cable trench caps to cover and protect cables distributing in the cable trenches.
- B. Access panels (test in accordance with ASTM E-196)
 - by 1 square inch indenter
 - 1. Concentrated-Load (center of panel):
 - a. 455 kg (1000 LB) less than 2.5 mm depression
 - 2. Concentration Ultimate-Load: by a factor of 2.75 times without failing, by 1 square inch indenter greater than 1250 kg (2,750 lbs)
 - 3. Uniform Load: greater than 12 kN
- C. Flammability: non-combustible, meet BS476 part 4, ASTM E-84 class 1
- D. Earthquake Load Performance:
- E. Environment protection:
 - 1. no pollution to sub-floors: The access panels are self-stand. No adhesives required to bond access panels' pedestals onto sub-floors. No pollution to sub-floors at time of installation.
 - 2. no damage to sub-floors: At time of relocation, no damage to sub-floors.

3. In the event of re-location, the systems' components shall be more than 95% re-usable.
4. The systems' components, cable trenches, pedestals, base connectors, are 100% recyclable, and which contributes more than 45% recyclable of whole systems.

1.3 SUBMITTALS

PART 2 - PRODUCTS

2.1 Access floor system and components

A. The system

1. Netfloor USA CamassCrete CR1000W system
2. system height: standard system height 40 mm to 150 mm (1.57" to 6")
3. modular size: 600 X 600 mm (23.62" X 23.62"), each module consists of 1 access panel (UniPanel), 1 Base Connector, 1 Central Cap, and 4 Flank Caps.
4. system weight: average 36 kg per sq. meter (7.36 LB per SF)
5. manufacturer: Netfloor, Inc. Netfloor USA 866-986-2661

B. Access Panels: steel cementitious panels, supported by 4 pedestal sets at corners. Access panels, when assembled, are self-standing.

1. panel size: 510 mm X 510 mm (20.07" X 20.07")
2. thickness: 28 mm (1.10")
3. materials: steel cementitious welded panel, corrosion protection by powder coating.
4. grooves: at four side of panel top, width 5 mm (0.19"), length 410 mm (16.14"), depth 8 mm (0.315").
5. hexagon-shape holes at four corners, for built-in by pedestal sets.

C. Pedestal sets: factory assembled pedestal sets consisted of socket-sets and threaded studs. Each stud has 4 mm (0.15") hexagon notch at top, which allows 4 mm (0.15") hex key-wrench, to adjust height above the access floor. Made of steel, corrosion protection by zinc plating.

D. Four pedestal sets built-in at each panel's four corners, to form a self-standing access panel.

- E. Cable Trench Caps: Central and Flank Caps to cover the cable trenches
- F. Central Caps: made of steel, size 170 mm X 170 mm (6.69" X 6.69"), thickness 2.3 mm (0.090"), to install, and cover, at intersection of cable trenches, protection against corrosion by electro-deposition.
- G. Flank Caps: made of steel, size 211 mm X 120 mm (8.30" X 4.72"), thickness 2.0 mm (0.080"), 8 mm (0.315") bend as four sides, to install, and cover, cable trenches at sides of access panels, protection against corrosion by electro-deposition.
- H. Base Connectors: size 180 X 180 X 10 mm (7.08" X 7.08" X 0.39"), made of galvanized steel, or steel protected by electro-deposition.
- I. Cable Trenches configuration: At time of installation, Base Connectors connected at access panels' pedestals at corners. Continuous connection at access panels' pedestals by Base Connectors, automatically forms reticulated, standard 90 mm (3.54") width cable trenches within every 600 mm (23.62").
- J. Cable Trenches capacity:
 - 1. open width: 90 mm (3.54")
 - 2. inside width: 110 mm (4.33")
 - 3. clearance: system height minus 8 mm (0.315").

2.2 ACCESS FLOOR COVERINGS

- A. The systems are suitable for bonded by commercial grade modular carpet tiles, and vinyl tiles of no less than 4.5 mm (0.177") thick.

2.3 ACCESSORIES

- A. Accessories: All components for ramps, perimeter, re-enforcement, and others, as indicated on the manufacturer's system drawings.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Job site: shall be free of vibration, rocking, cracking, grease, or debris. All debris, foreign objects shall be removed before installation.

3.2 INSTALLATION

1. Install access flooring system by Certified raised floor installation teams, and by follow manufacturer's installation guide.
2. Access floor system shall comply requirements by specific applications per manufacturer's system and shop drawings.

3.3 CLEANING AND PROTECTION

- A. Clean access flooring after installation. All residuals shall be removed from the job site.
- B. Other trades, such as electrical sub-contractors, when requires removing cable trenches' caps for cable routing, shall place the caps at proper and safety location, and shall re-store removed cable trenches 100% back onto cable trenches at original position right after completion of each electrical work.
- C. Other trades, when working on top of access floors shall make proper and adequate protection. Heavy carts or equipments, when passing through access floors, shall apply continuous plywood panels of minimum 12 mm (0.47") thick to protect from work of other trades.
- D. Moving extra-heavy carts or lifter on access floor: shall consult the manufacturer's regional distributor, or regional sales representative.

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