



TrendWall Flooring Solution Product Specifications

UPDATED

May 2, 2012

PART 1 - GENERAL

1.01 SECTION INCLUDES

This specification defines the TrendWall Flooring Solution access floor system consisting of fiber cement floor panels screw attached to an interlocking fire retardant polypropylene modular base system which is designed to provide easy access to both power and data within a typical commercial office environment.

1.02 REFERENCES

- A. ASTM D, Sections 635, 1929 & 2843 - Material Burning Characteristics: Modular Base Units - Polypropylene
- B. ASTM E84 & E648 – Material Burning Characteristics: Cement Board
- C. Ceiling and Interior Systems Construction Association (CISCA)
- D. General Services Administration (GSA)
- E. International Organization for Standardization (ISO)
- F. National Fire Prevention Association (NFPA)
- G. CarbonNeutral®

1.03 SYSTEM DESCRIPTION

- A. Design Requirements:
 - 1. Maximum height from subfloor to top of floor panel shall not exceed 2 1/2 inches (63 mm).
 - 2. Corners of four adjacent floor panels shall be secured by a corner clamp and single screw.
 - 2. Floor panels shall be removable by one person without the need for special lifting devices.
 - 3. System deadload shall not exceed 5.3 lbs. PSF.
 - 4. Underfloor space will be divided by a patterned frequency of vertical supports into a distinct floor wide grid of cabling raceways that serve as the basis for the organization of under floor electrical cable structure.
- B. Performance Requirements
 - 1. Access floor shall comply with seismic requirements of UBC Seismic Zone 4.
 - 2. System components and mastics shall not contain formaldehyde in any form, or any other measurable Volatile Organic Compounds (VOCs) as defined and listed by the US Environmental Protection Agency (EPA).
 - 3. Access floor will not require under deck fire blocking at any interval when installed in UBC Class I or II noncombustible buildings in accordance with ICBO, NES, IBC, or BOCA code requirements.

1.04 SUBMITTALS

- A. Upon receipt of customer's floor plan and completed TrendWall Flooring Solution Request for Quotation (RFQ) Form, Trendway shall create a computer-generated (CAD) floor plan of the desired TrendWall Flooring Solution layout for customer's approval.

- B. Upon approval of the TrendWall Flooring Solution CAD drawing and submission of a corresponding purchase order, the product shall be built to the exact approved specifications of the customer.

1.05 QUALITY ASSURANCE

- A. The specified TrendWall panel system shall be designed, developed, manufactured, inspected, tested, installed and serviced in accordance with ISO9001 Standards and the manufacturer shall be a registered ISO company.

1.06 DELIVERY, STORAGE AND HANDLING

A. Packing, Shipping, Handling, and Unloading:

1. TrendWall Flooring Solution products shall be packaged in the Trendway factory by the best means as determined by Trendway's packaging engineer.
2. All orders shipped to any destination within the contiguous United States, shall be F.O.B. origin, freight prepaid, and risk of loss or damage shall pass to Buyer upon delivery to carrier. Trendway shall determine the method and agency of transportation to be used.
3. Customer-directed or expedited shipments (Air Freight, Federal Express, etc.) shall be prepaid and billed at actual cost.
4. An "Order" is defined as each purchase order issued with a single "shipped to" address without special marking or tagging.

B. Acceptance at Site:

1. In the event that special F.O.B. destination terms are agreed to by Trendway or delivery is made on Trendway owned or leased carriers, the customer or authorized representative is responsible for noting any freight damage or shortage on the freight bill of lading at time of delivery and must notify Trendway within five (5) days of delivery day of any such damage or shortage.
2. Assistance in a concealed damage claim on an F.O.B. destination shipment will be provided by Trendway only if the product has been immediately unpacked and both the carrier and Trendway have been promptly notified of resultant damage so the proper inspection can be made.

C. Storage and Protection:

1. When the buyer delays shipment, Trendway reserves the right to place the goods in storage at customer's risk and cost.
2. All terms and conditions of the sale including but not limited to invoicing and payment, will continue as if the product had been shipped to a Buyer specified destination; except that title remains with Trendway and that

Trendway reserves the right to modify payment terms to assure recovery of any additional cost incurred.

1.07 PROJECT/SITE CONDITIONS

A. Environmental Requirements and Existing Conditions:

1. The installation site shall be clear and ready for TrendWall Flooring Solution installation
2. Subfloor shall be smooth and dry with maximum deviation of 3/8 inch (10 mm) in 10 feet (3 m). Finished floor shall be completely installed and ready for traffic prior to beginning the TrendWall Flooring Solution installation

1.08 SEQUENCING AND SCHEDULING

For Installation Sequencing and Scheduling, refer to the Trendway Installation Guide for TrendWall Flooring Solution System or contact Trendway Customer Service.

1.09 WARRANTY

For complete Warranty description, contact Trendway Customer Service.

1.10 MAINTENANCE

For proper maintenance of Trendway products, contact Trendway Customer Service for appropriate literature and/or instructions.

PART 2 - PRODUCT

2.01 MANUFACTURER

Trendway Corporation
13467 Quincy Street
Holland, MI, 49424
616.399.3900

2.02 MATERIALS

- A. Modular Base System: Injection molded polypropylene support cylinders and interconnecting base straps with pads to connect adjacent modules. Provide molded cable tie anchor points on straps between each cylinder.
1. Module Size: 9 sf (1 m²)
 2. Cylinder Size: 2-3/4 inches (70 mm) diameter by 1-3/4 inches (45 mm) high.
 3. Cylinder Spacing: 5.9 inches (150 mm) on center.
 4. Cable Raceway: 3-1/8 inches (80 mm) wide.

- B. Floor Panels: Smooth surfaced fiber cement board with corners milled to receive flush recessed corner clamps; 23.62 x 23.62 inches x .72 inch thick (600 x 600 mm x 18 mm). Weight is 18.5 lbs. (8.4 kg) each.
- C. Corner Clamps: Rigid nylon clamp designed to secure corners of four adjacent floor panels to modular base system. Provide screw as recommended by manufacturer.
- D. Adhesive: Michigan Adhesive, Seal Bond TM, No. 95F or equal.
- E. Concealed Wood Skirting: 3/4 x 2-1/2 inch (18 x 64 mm) S4S softwood.B.
- F. Ramps: Class A, fire retardant treated, 3/4 inch (18 mm) plywood with Class A treated solid lumber supports. Taper underside at bottom of ramp to provide smooth transition from subfloor to ramp.

2.03 SOURCE QUALITY CONTROL

- A. Floor Panel Fabrication Tolerance: Concave, convex or twist variation of 1/16 inch (2 mm) or less.

B. COMPONENT FIRE TESTS:

1. Modular Base System Polypropylene Material:
 - a. Self-Ignition, ASTM D 1929, ProcedureB: 730°F (390°C) min.
 - b. Rate of Burning, ASTM D CC1 Classification
 - c. Smoke Density Rating, ASTM D 2843 45 max.
2. Floor Panel Fiber Cement Board:
 - a. Flame Spread, ASTM E 84 0
 - b. Smoke Density, ASTM E 84 0
 - c. Classification:
 - i NFPA Class A
 - ii UBC Class I
 - d. Critical Radiant Heat Flux, ASTM E 1.06 min.
3. Access Floor System:
 - a. Flame Spread Classification, CAN/ULC-S10202-M88 0
 - b. Smoke Developed, CAN/ULC-S10202-M88 5 max.
 - c. Critical Radiant Heat Flux, ASTM E 648 1.1 min.

C. SYSTEM LOAD: CISCA FORMAT

- B. 1. Access Floor System:
- C. Concentrated Center Load, one inch indenter 2500 lbs (11 120 N)
- D. Concentrated Edge Load, one inch indenter 1250 lbs (5560 N)
- E. Uniform Load 45,000 psf (20 385 kg/929 cm2)
- F. Ultimate Center Load, two inch indenter 7500 lbs (33 362 N)
- G. Ultimate Weakest Point Load, two inch indenter 2000 lbs (8896 N)
- H. Rolling Load, Wheel 1, Path A, 10 Passes 600 lbs (2670 N)
- I. Rolling Load, Wheel 2, Path A, 10,000 Passes 400 lbs (1780 N)
- J. 2. Pedestal Axial Load Test, 3 Cylinder Ave. 5000 lbs (22 400 N)
- K. All TrendWall Clear Framing Elements shall be:

1. 2 Made from anodized grade aluminum that can either be anodized or powder coated.
 2. Fully Assembled, ready to be cut to length and installed
 3. Include extruded PVC glass seals
- L. Glass Inserts shall be ½" tempered glass; available in one of three standard finishes:
1. Industry Standard Clear Tempered
 2. Low – Iron, Ultra Clear tempered
 3. Mattalux Frosted Tempered
- M. Doors Slabs shall be constructed in the following manner:
1. Frameless Pivot Doors shall be manufactured from ½" solid glass in one of the following finishes:
 - a. Industry Standard Clear Tempered
 - b. Low – Iron, Ultra Clear tempered
 - c. Mattalux Frosted Tempered
 2. Framed / Flush Sliding doors shall be made from:
 - a. Finger Jointed Pine stiles and rails
 - b. LDF solid core interior
 - c. MDF skins, laminated with veneer, finished to factory standards

2.04 FINISHES

- A. All aluminum surfaces shall be powdered coated in one of 18 Trendway standard trim colors or anodized in Trendway's Satin Etch Finish. Reference Trendway's Surface Material Guide for details
- B. All 1.75" sliding doors shall be stained to match one of Trendway's 5 standard veneer colors.

PART 3 - EXECUTION

3.01 EXAMINATION/INSPECTION

Before installing the TrendWall Clear Glass Wall system, a re-inspection of the installation site shall be made by the contractor to re-verify vital information used to specify the initial product required, such as ceiling height, floor conditions, and other physical characteristics that can affect an installation.

3.02 INSTALLATION

- A. Five basic steps comprise the TrendWall installation process:
 1. Upper Load Beam Installation

2. Hardwall Transition Post Installation
3. All other vertical post installation
4. Lower Load Beam
5. Glass Insert Installation
6. Door Installation
7. Load Beam (Upper and Lower) Covers

B. For a detailed description of each process step, refer the Trendwall Planning & Specification Guide or contact Customer Service.