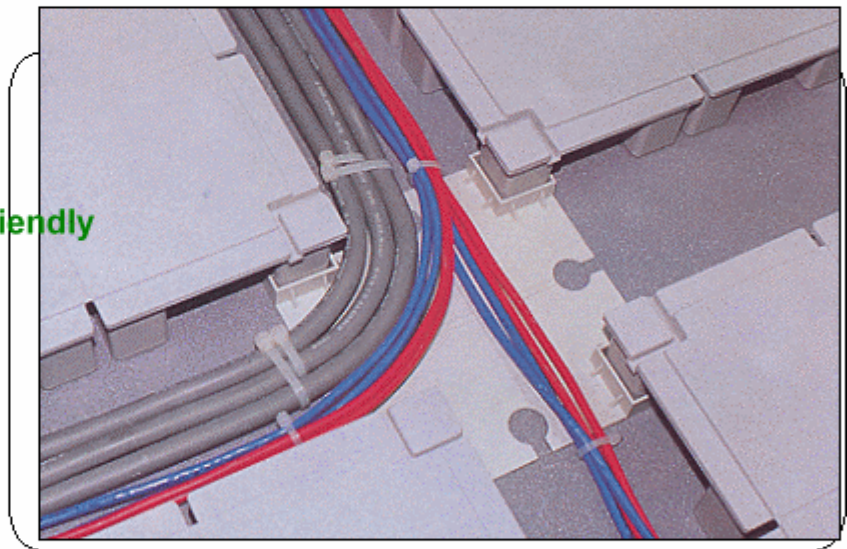




www.net-floor.com

User Friendly
& Environment Friendly



CMS

AD-600 / CA-400

100 percent ----- recyclable

Cable **M**anagement Flooring **S**ystems



Low Profile Cable Management Systems

AD-600: System Height 60 mm (2.36")

AD-400: System Height 40 mm (1.57")



User Friendly
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Nothing more sharply defines the nature of on-going office modernization than the dynamic development and utilization of the Internet and the Intranet. Increasing office automation and fast-paced re-organization demands flexibility of the workspaces like never before. A virtual jungle of data, voice, and power cables extending to and connecting all computerized equipment and indeed all personnel is a brand new physical reality in offices. In some cases the Conventional Raised Access Floors (CRF), designed for control rooms in industrial settings, have been modified and installed in schools and offices. But they have many shortcomings and only solve part of the problem. *Netfloor Cable Management Systems (CMS)* offer superior solutions to many aspects of the problem, and facilitate true flexibility for on-going and future needs.

--- Features ---

Netfloor **CMS** Systems are designed for the offices of the Information Age. They are light in weight, low in profile, fully accessible and infinitely flexible! The unique design of this access flooring system separates the access from the floor, it is provided in the form of evenly distributed and simply Capped Cable Trenches. These trenches house the Cables that can be mapped to efficiently reach all points of the floor. In the event of re-routing, caps in affected areas simply lift off, cables can then be unloaded and reloaded, Future expansion is easily achieved by extending the grid.

Netfloors have four main components: UniPanel, Base Connector to connect the UniPanel, Central Cap and Flank Cap to cover the Cable Trenches.

Low Profile

There are complete product lines with floor heights of 40 mm, 50 mm and 60 mm.

Interlocking system

By using the Base Connectors to lock the corner feet of UniPanels (main panels) in place, four to a connector, a grid system of Cable Trenches are automatically formed. They can be capped by hand after cables are laid, all without nailing or drilling.

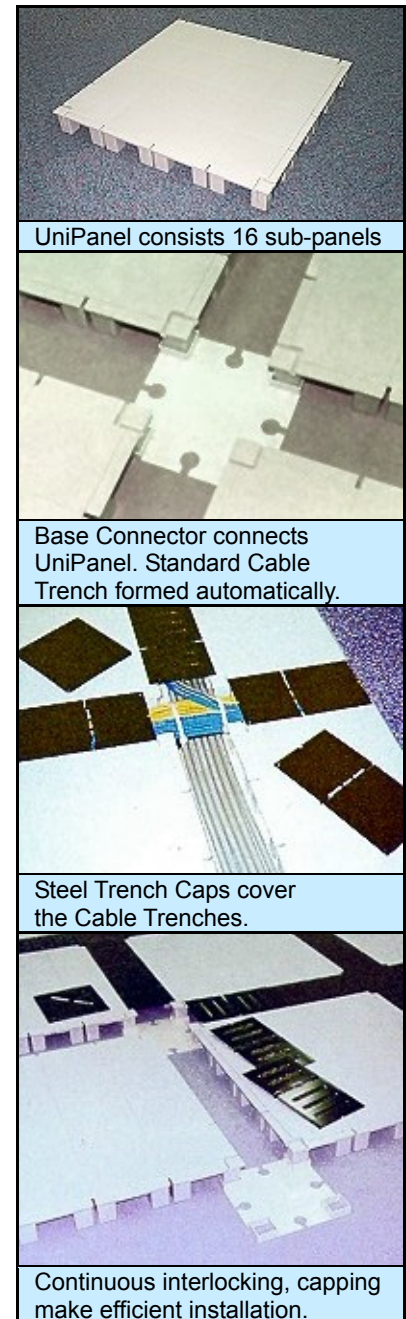
Fully Accessible Cable Trenches

Cable Trenches in a continuous grid pattern are covered by steel Trench Caps. Central Caps are designed to cover the intersection of the trenches; Flank Caps cover the rest. All Caps are simply placed over the trenches and the latter remain fully accessible.

Cable Trenches' clearance in width is a standard 90 mm (3.54") throughout all Netfloor systems. Their **clearances in height** are 5 mm less than the system height. For example, clearance of the AD-600 system (60 mm height) is 55 mm and clearance of the CA-400 (40 mm height) is 35 mm.

Installation

Netfloors are installed quickly, on the average taking half of the time when compared to CRF. One installer can complete 60 to 80 sq. meters (650~850 SF) per workday.



Benefits - - - - - Ideal floors for office modernization

Substantial long-term cost savings and wide user acceptance and preference are the most significant benefits of the Netfloor systems. Netfloor CMS add value to on office environment with safety, manageability and flexibility features.

Light Weight -- Adaptability

Netfloor Systems weigh 12 kg ~14 kg/m², about 1/3 the weight of traditional raised access floors (CRF). This is impotent when retrofitting older buildings that might not bear much extra load.

Safety and Manageability

The organized cable distribution system has cables going down designated routes and exiting from the Flank Caps, through grommets into modular walls, full-height partitions, or directly to the desk tops. Cable Trench Caps are fully accessible and can be lifted by hand without special toots. These two features ensure safe handling by ordinary office maintenance personnel. The UniPanels (main panels) are self-standing platforms supported by pedestals that are factory-assembled. There is no chance of them collapsing and causing hazardous conditions during installation or use.

Cost Effectiveness

Installation mainly consists of connecting the UniPanels. There is a little trimming involved when starting the installation at a perimeter wall|. When installed one room at a time, disturbance to personnel in other rooms is minimal to none. One installer can complete 650 to 850 SF per workday, twice as much as installing CRF.

Low initial cost: Average 2/3 of material and half of labor costs compared to CRF.

Low maintenance costs: Expansion and relocation costs less than 1/3 of the cast compared to CRF.

Active Reuse: In case of relocation, all components except sound attenuation blanket can be moved easily: more than 90 percent of them are reusable.

Fast and easy renovation and expansion

Because the design of Netfloors ensures fast and easy installation, renovation and expansion is just some more of that same easy process. Calling in a professional crew with specialized tools and making a major operation out of it is not in the picture. Any interference with the on-going operation in adjacent offices will be minimal. Noise level during installation is minimal.



Apply adhesives at the Sub-floor by long-hand paint roller. Apply Sound Attenuation Blanket.



Connect by Base Connector. Installation is easy and fast.



Install the Trench Caps before or after routing cables.

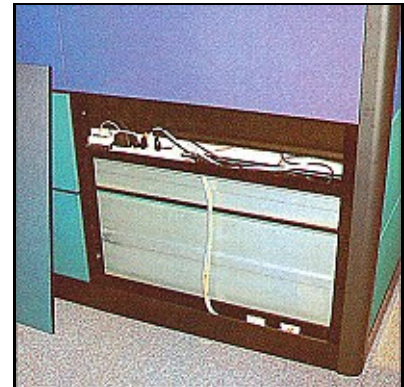


Internal dry wall or de-mountable partition can be installed on top of Netfloors.

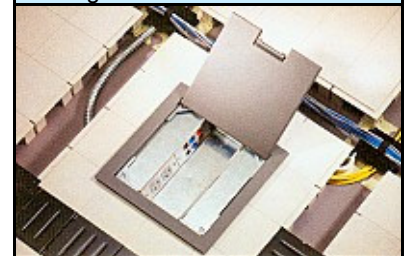
Infinite Flexibility

Routing the cables in a clearly defined and well-organized manner is a given with the CMS. The cables are brought to the vicinity of all locations in the workplace that require access. Actual connection is facilitated by a number of ways, as described and illustrated below:

1. Extrusion from Cable Trench grommet to extend to desk top or to workstation directly.
2. Full height dry wall or any hollow-core partition can be built directly on top of the Netfloors. Cables are extended from the Cable Trench through floor tracks of the walls, and travel inside the walls to designated locations.
3. For partitions that do not allow the cables to travel inside them, cables can exit the under- floor trenches, connection can be made directly at the base of the wall.
4. Netfloor utility service box SB-603 can be installed directly over Cable Trench of AD-600 system (60 mm height). And SB-403 can be installed over Cable Trench of CA-400 system (40 mm height). The box serves up 2 x 110 volts power socket and 3 x Cat. 5E or 3 x Cat. 6 data jacks.
5. Multi-purpose service box can be flush mounted at the center opening of designated UniPanel. These special UniPanels can be fashioned by removing a number of the Sub-Panels of 60 mm height for AD-600 and 40 mm height for CA-400.



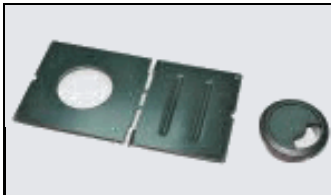
Extrusion from Cable Trenches through to exit at desk.



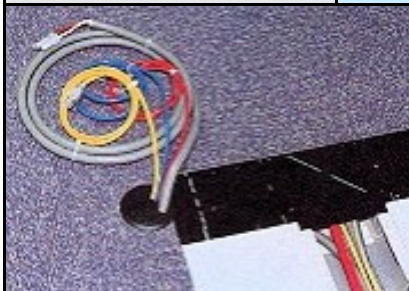
5. Multi-purpose box fixed at UniPanel by removing 4 Sub-Panels at center.



4. service box SB-603 installed at Cable Trench.



Exit-cap is made of Flank Cap with 60 mm diameter opening. Grommet inserts at the opening. Apply Exit-cap by replacing Flank Cap. Then, extend cables from grommet to connect at partition, open plan panel, desk top and any nearest points above Netfloors.



1. Extrusion from grommet trough Cable Trench.



2. Extrusion from Cable Trenches to dry wall or demountable partitions.



3. Extrusion from Cable Trenches to exit wall base.



AD-600

AD-400

60 mm Height

40 mm Height

Amongst the Netfloor products, AD-600 and CA-400 are the most popular Product line. The AD-600 system has gained wide acceptance in the U.S., U.K., and CA-400 system is well accepted in East Asia. AD-600 is 60 mm in overall height, with 55 mm clearance at the Cable Trenches. CA-400 is 40 mm in overall height, with 35 mm clearance at the Cable Trenches. Each UniPanel (main panel) of CMS system is composed of 16 Sub-Panels. Each Sub-panels is supported on 4 build-in pedestals. The total of 64 pedestals give the CMS Systems extremely high uniform load bearing property, estimated more than 15 to 20 times to that of traditional raised access floor.

The System

Module set: 600 mm x 600 mm (24" x 24") (UniPanel + Cable Trenches)

Height: 60 mm (2.36") for AD-600 / 40 mm (1.57") for CA-400

Cable Trench

width: 90 mm (3.54")

clearance: 55 mm (2.16") for AD-600 / 35 mm (1.37") for CA-400

System Weight

AD-600: 13.6 kg per sq. meter (2.78 LB per SF)

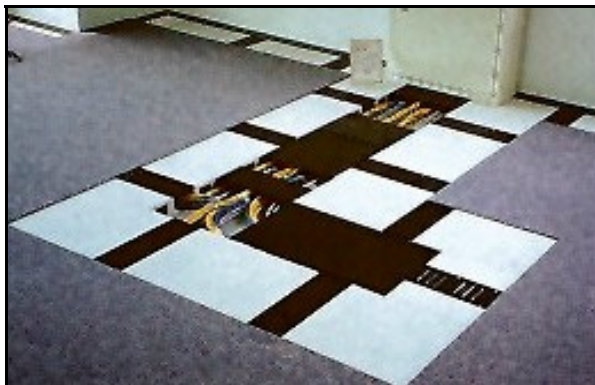
CA-400: 11.6 kg per sq. meter (2.37 LB per SF)

Environment Protection

Netfloor CMS series are designed at environment protection concept. All components of the system, UniPanel (main panel), Base Connector, Steel Cable Trench Caps, Ramp, Aluminum Skirting and Aluminum Ramp Rail are re-usable and 100 percent recyclable.



Full-height and half-height open plan partitions installed above Netfloor CMS series, CMS systems provide highest flexibility for power and data cables to extend and connect at any point of the partitions.



Cable-influx units installed at the entrance of cables, to receive large amounts of cables at the beginning and distribute through Cable Trenches.



School classroom always congested by monitor and P/C. CMS series facilitate highest accessibility and flexibility for routing, extension, connection and re-location.



High loading property

Despite the lightweight, AD-600 and CA-400 systems have high Concentration and Uniform Load bearing properties. This makes it a highly durable system to be used in general offices where both the live and dead load can vary greatly depending on the current use.

Cost effectiveness for application in both new or old office buildings

AD-600 and CA-400 system provides a strong and versatile standard floor for new office buildings, but can also work well in adaptive reuse of old buildings. The initial cost of AD-600 and CA-400 is moderate, and the maintenance cost is negligible.

Large capacity for cable accommodation

AD-600 has a Cable Trench clearance of 55 mm. It can hold pipes up to 51 mm (2 inches) in diameter and has sufficient capacity to route large quantities of data cables. Most floor mounted utility service boxes with a height of less than 60 mm can be accommodated one way or another without much difficulty by AD-600.



Workstation connection:

Unlimited flexibility for cable extension and connection from Cable Trench, through Exit-Cap to connect at wall base, open plan Panel, desk top to all workstations.

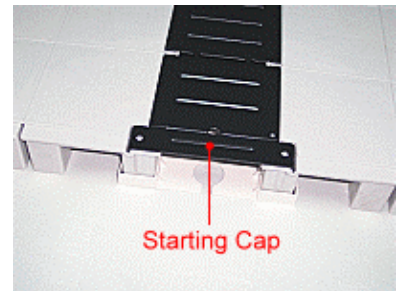
Sound Attenuation Blanket



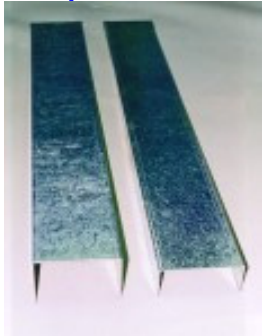
2 mm thick foam, fire retard treatment apply blanket first before install UniPanel.

Starting Cap

Install at first row panels, to conceal gaps at begin of the Cable Trenches.



Ramp, Aluminum Skirting (Free Standing) and Ramp Rail



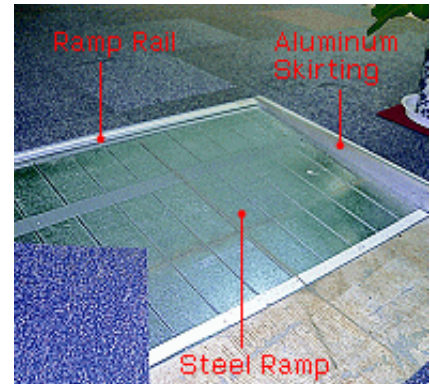
Ramp:
Galvanized steel 60
and 40 mm high



Aluminum Skirting:
60 and 40 mm high



Aluminum Ramp Rail:
install at begin line of
slope (optional)



Main Specifications

Module size: 600 mm x 600 mm (24" x 24")

System	AD-600	CA-400
Height:	60 mm (2.36")	40 mm (1.57")
Cable Trench width:	90 mm (3.54")	90 mm (3.54")
Cable Trench Clearance:	55 mm (2.16")	35 mm (1.37")

Main Components:

UniPanel: made of fire retard, recycled polypropylene

AD-611: size 510 x 510 x 60 mm (20.08" x 20.08" x 2.36")

CA-411: size 510 x 510 x 40 mm (20.08" x 20.08" x 1.57")

Base Connector:

Size 169 mm x 169 mm x 15 mm (6.65" x 6.65" x 0.59")

Made of recycled poly-carbonate plus ABS

Central Cap: Size 148 mm x 148 mm (5.82" x 5.82")

2.3 mm (0.09") thick steel, re-enforced ribs corrosion resistance treatment by electro-deposition, black

Flank Cap: Size 223 mm x 120 mm (8.78" x 4.72")

2.3 mm (0.09") thick steel, re-enforced ribs corrosion resistance treatment by electro-deposition, black

Sound Attenuation Blanket: 2.0 mm (0.08") thickness

Accessories

Ramp, Starting Cap, Edge Rail, Aluminum Ramp Rail, Aluminum Free Standing, Exit-Cap, Edge Trimmer, etc., to support quick and efficient installation by least cutting at perimeters.

Surface floor covering: on top of CMS series

Commercial carpet tile: such as Milliken, Interface, Toly ...

Commercial rate vinyl tile: thickness>4.0 mm

Hard floorings such as marble, granite, wood, are not suitable.

Environment Friendly

All components of the system, UniPanel (main panel), Base Connector, Central Cap, Flank Cap, Ramp, Aluminum Free Standing, and etc., shall be re-usable and 100 % recyclable.

Tests

Fire Retard

UniPanel: Meet NFPA 253 class A rating as test in accordance with ASTM E-648 Critical Radiant Flux.

Meet UL 94 V-2, Meet BS 476, Part 7, B2

Concentration Load:

Test in accordance with ASTM-E196 (2" plate)

UniPanel AD-611: 400 kg<2.5 mm depression

UniPanel CA-411: 360 kg<2.5 mm depression

Central Cap: 300 kg<2.0 mm depression

Flank Cap: 300 kg<2.0 mm depression

Concentration Ultimate Load:

AD-611 UniPanel>700 kg

CA-411 UniPanel>600 kg

Uniform Ultimate Load:

AD-611 UniPanel>200 psi

CA-411 UniPanel>150 psi

Warranty: 5 years warranty (except when product is subject to abuse, negligence, abnormal use and not under Netfloor's installation instruction).

In pursuing of quality improvement, the manufacturer reserves the rights to vary specifications without prior notice.

Patent granted -- The System

Japan: Utility Model No.3032638

Australia: Invention Patent No.679415

France: Invention Patent No.97 99 255

Taiwan: Invention Patent No.127700

South Africa: Invention Patent No.97/020

USA: Invention Patent No.5.630.300

Germany: Utility Model No. 29520105.5

U.K.: Invention Patent No.2309042

China: Utility Model No. ZL 02 2 91689.X

Patent pending ----- **V-shape re-enforced steel cap system**

World-wide patent pending

visit us at

www.net-floor.biz



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