NETFLOR®

ECO series

Low Profile Cable Management Access Floor System

Modernization Around the Clock

User Friendly
100% Reusable
100% Recyclable

LEED Compliance
Maximize your LEED Credit Point

ECO mark
registered

ECO

CA600R CA500R CA400R series

a multi-nation company factory office, USA

Netfloor ECO Series is one of the best-selling products among Netfloor product family. ECO series features high cable management capability at low-height, extra-durability, high changeability, easy accessibility, and more important is it's friendly to the environment. Since its launch in 1996, millions square meters of the ECO systems have been installed in many of the class-a office building projects, as well as in small school classrooms. To extend best sales services, the systems are distributed through Netfloor world-wide distribution network in the USA, Mexico, Brazil, Chile, UK, Spain, Benelux, Japan, HK, Taiwan, Philippines, Australia, New Zealand, Brunei,…and more to be established.

In the meantime of distribution network establishing there are emerging market opportunities to the ECO systems which you might think small possibility before. Since year 2000, besides of the offices and schools, ECO series has been growingly using in the call centers, retail stores, exhibition rooms, and even rental live/exhibition events.

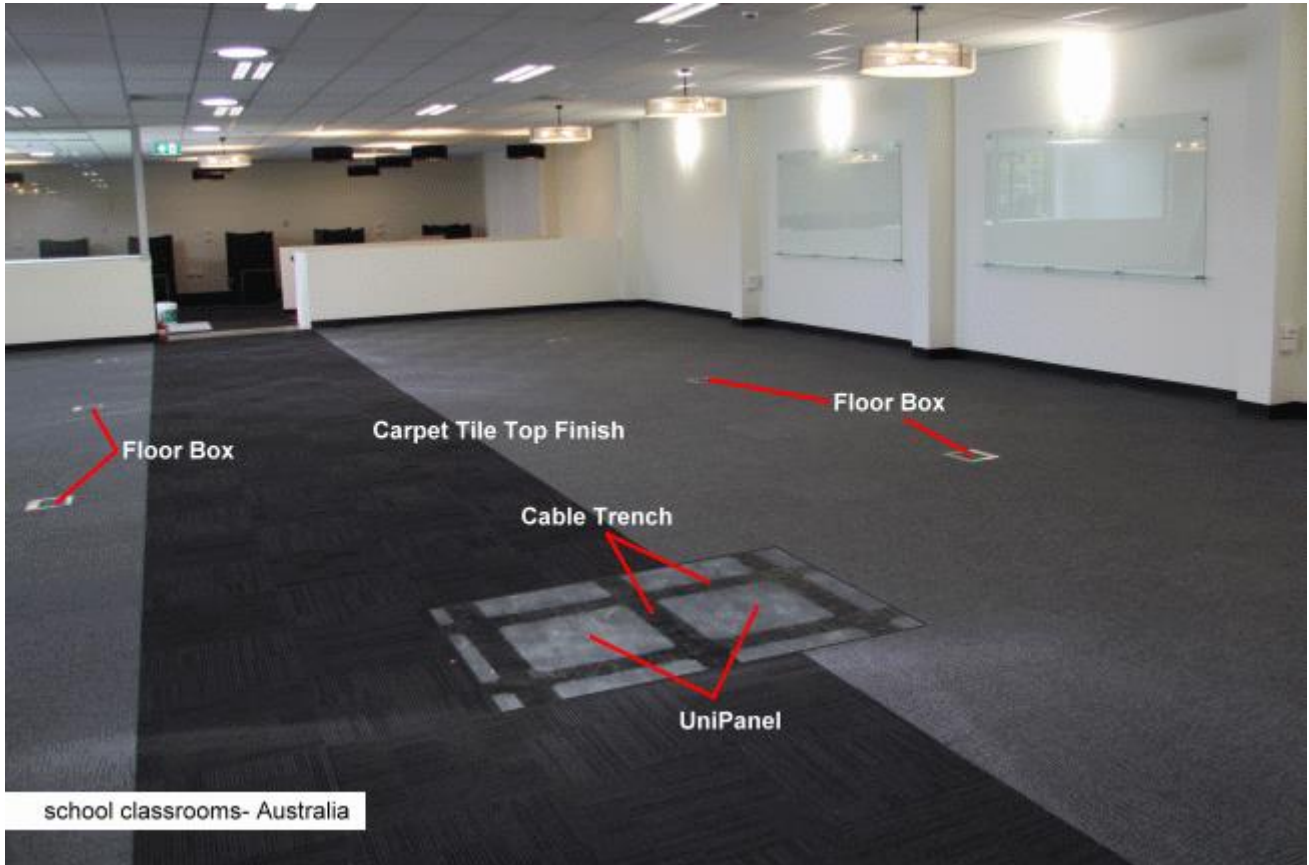specail exhibition room in National Palace Museum, Taiwan

Global Distribution and Acceptance

an airline reservation center in U.S.A.

Low-Profile
at High Capability

CA600R- 60 mm   CA500R- 50 mm   CA400R- 40 mm

Floor Box

Carpet Tile Top Finish

Floor Box

Cable Trench

UniPanel

school classrooms- Australia

The Unique Grid-Pattern Cable Trench System

Cable Trenches: are formed automatically when installing and connecting Base Connectors to UniPanels.

Width of Cable Trench: 90 mm width cable trenches surrounding every 600 X 600 mm module, form a grid-pattern that facilitates future moves, additions and changes.

High cable management capacity at low-height
System heights: 40 mm, 50 mm, 60 mm.
Cable Trench clearance: system height minus 5 mm.
Cables can be routed systematically through the cable trenches, and cavities under the UniPanels providing reserve space for extra distribution.

Free cable extension: Cables extend from cable trenches to connect with service floor boxes, or extend through grommets to connect data and power sockets at partition wall bases, conference table, or workstation desktop locations.

High Changeability

stores / exhibitions / rental booths

Besides providing systematic and high cable carrying capacity, the system provides high changeability where cable rerouting and relocation is expected frequently

1. Systems installed without adhesives to the sub-floors.

2. At the time of re-location, no damage to sub-floor.

3. Cable routing and re-routing is efficient, neat, and with little interference to surrounding workstations.

4. In most of the case, overnight re-distribution is workable, without interference normal business hours.

5. Minimal costs are incurred during re-layout or re-location.

6. In the event of re-location, all components are 100% re-usable.

Environmental Friendly

The ECO series with its emphases on being environmentally friendly meets the high standard of Green Building Materials. The UniPanel (main panel) is made of recycled poly-propylene. All of the main components of ECO series including UniPanel, Base Connector, Cable Trench steel caps are 100% re usable and recyclable.

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Using the ECO series for projects can maximize your LEED credit point for both new buildings and old building renovations.

UniPanel (main panel):
Is made of recycled poly-propylene.

100% re-usable:
All components are 100% re-usable.

100% recyclable:
All components of the system are 100% recyclable

recycled poly-propylene

new product

before and post consumer recycle

relocation & reuse

new installation
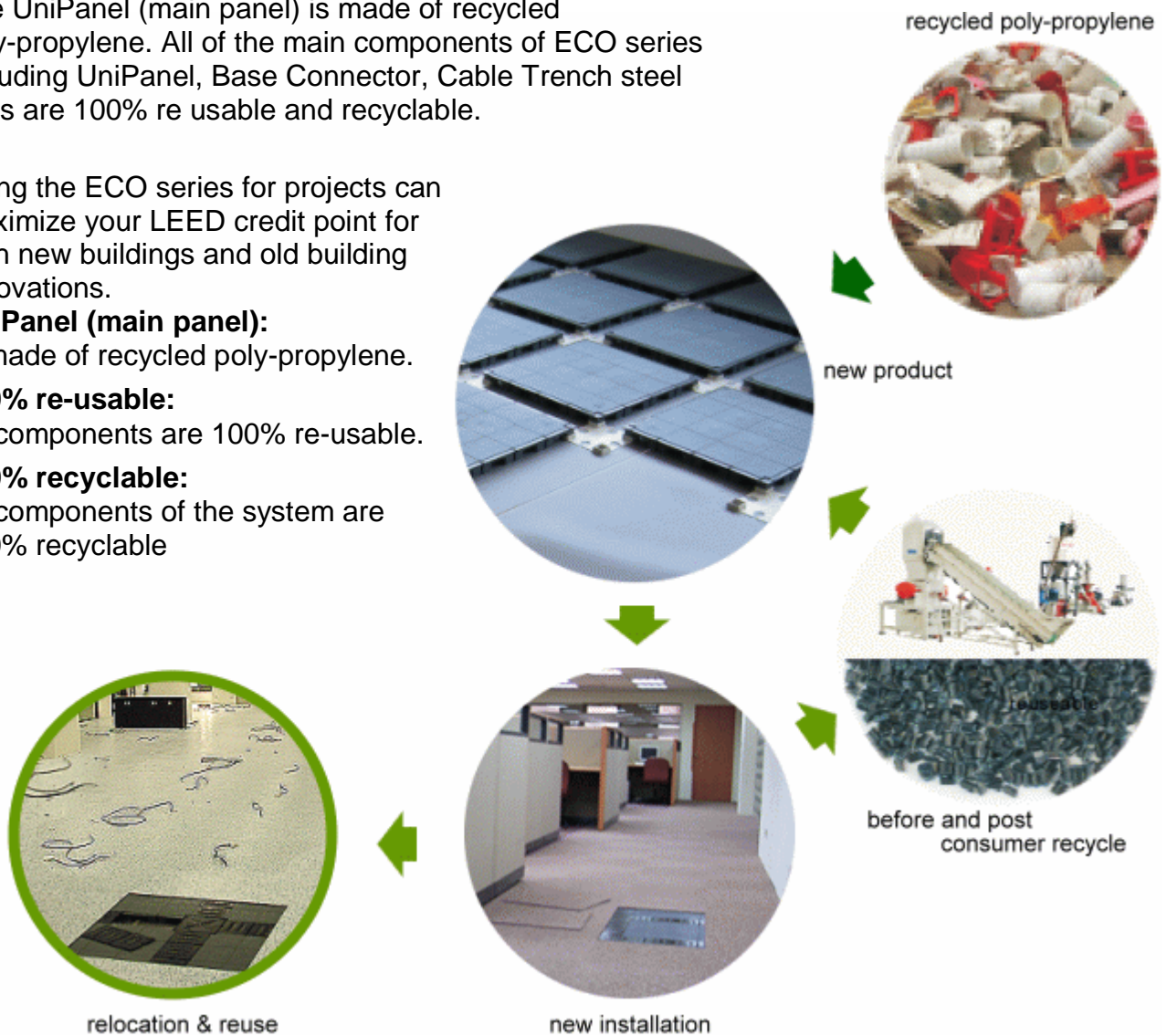
Relocation - 100% re-usable

This branch office of a Japanese company in Taiwan, has used the ECO series for 10 years (until April, 2009)
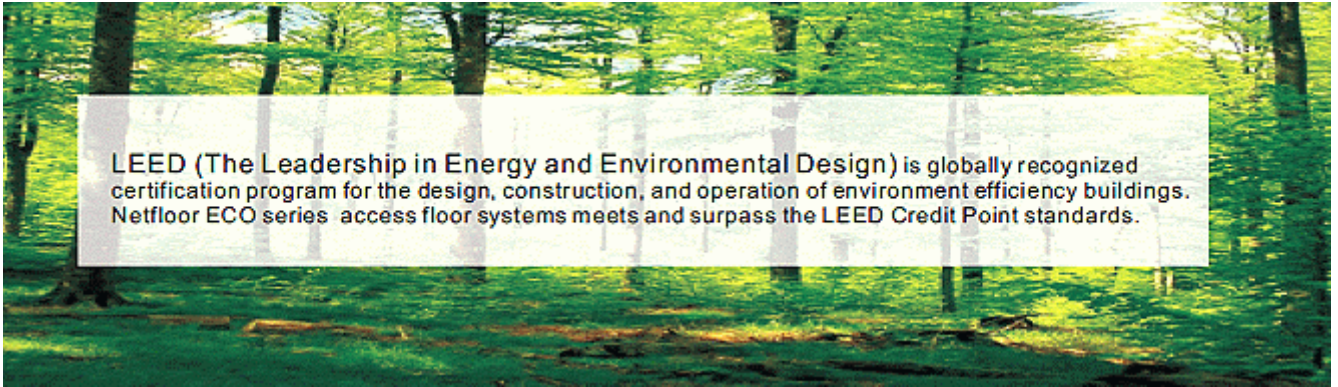
pack the cable trench steel caps

UniPanels and steel caps were packed

quickly and efficiently moved out

transported to the re-located site

LEED (The Leadership in Energy and Environmental Design) is globally recognized certification program for the design, construction, and operation of environment efficiency buildings. Netfloor ECO series access floor systems meets and surpass the LEED Credit Point standards.

LEED Credit	LEED Requirements	Netfloor System Compliance	LEED Points for Your Project
Materials & Resources Credit 4.2	Use materials with recycled content total of 20%, based on cost of the total value of the materials in the project	ECO series CA600R, CA500R, CA400R recycled contents are greater than 65% of total system material	Contributes to **2 points**
Materials & Resources Credit 5.1/5.2	Regional Materials: 10% extracted, processed & manufactured regionally	ECO series CA600R. CA500R, CA400R are manufactured in Taichung, Taiwan	Contributes to **1~2 points** for projects in Taiwan, Hong Kong, and Macau within 500 miles (800km) of Taichung
Environment Quality Credit 4.1	Low-Emitting Materials: Adhesives & Sealants. Reduce the quantity of indoor air contaminants that are odorous, irritating and/or harmful to the comfort and well-being of installers and occupants	Netfloor ECO series is designed to install without adhesives on the sub-floors, unlike traditional access floor systems which requires adhesives to be applied to the sub-floor	Contributes to **1 points**

 100% Reusable
100% Recyclable

LEED Compliance
Maximize your LEED Credit Point

 ECO mark registered

Recycle - 100% Recyclable

recycle from job site   crush   crushed poly-propylene   packed and prepare for resin re-manufacturing

Interlocking configuration, low labor costs

The system consists 4 main components: UniPanel (main panel), Base Connector, Central Cap, and Flank Cap. During installation, UniPanels are connected by Base Connectors, which automatically forms 90 mm wide, grid-pattern Cable Trenches. Steel Cable Trench Caps (Central Cap and Flank Cap) are easily installed, by hand, to cover the Cable Trenches. The Cable Trench Caps are designed to seat firmly on UniPanel, and protect cables running inside the Cable Trenches that can be easily removed for complete accessibility.
All main components, UniPanel, Cable Trench Cap, Base Connector are interchangeable.
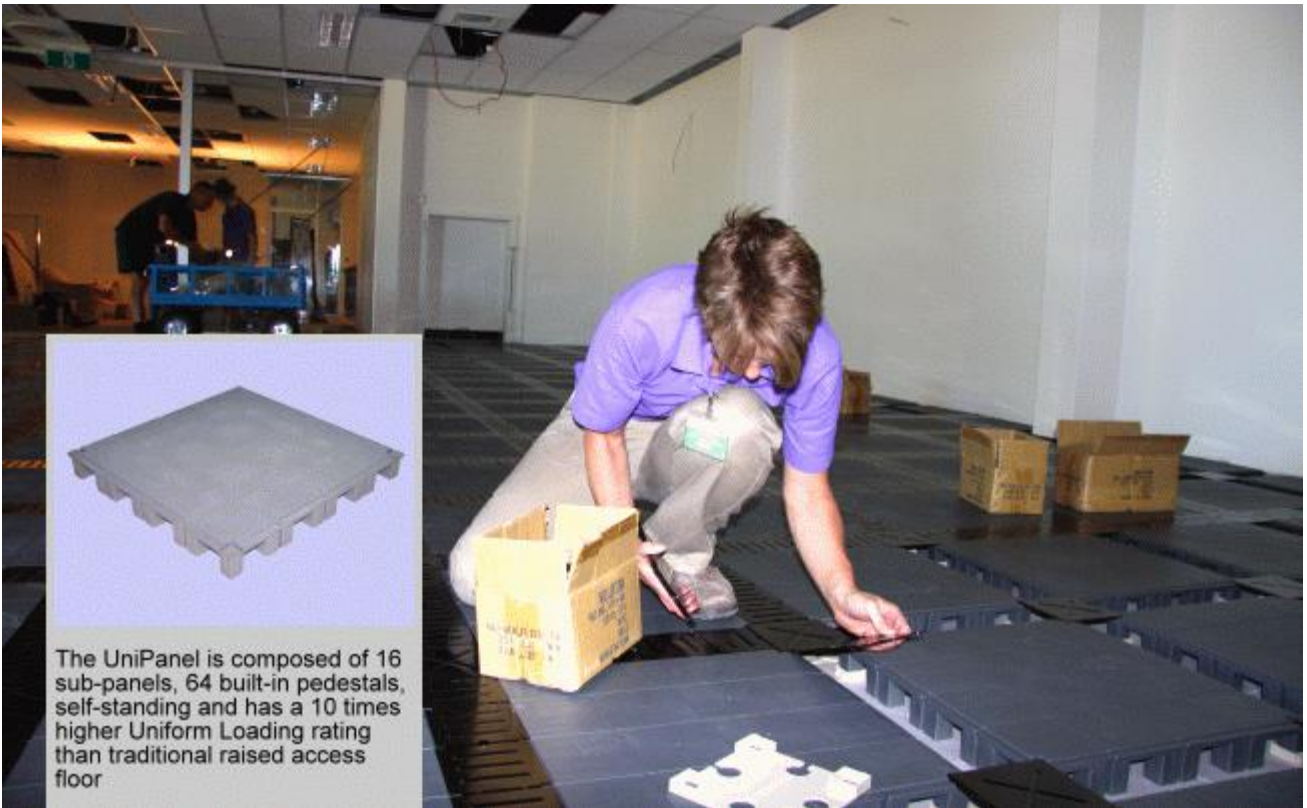
The UniPanel is composed of 16 sub-panels, 64 built-in pedestals, self-standing and has a 10 times higher Uniform Loading rating than traditional raised access floor
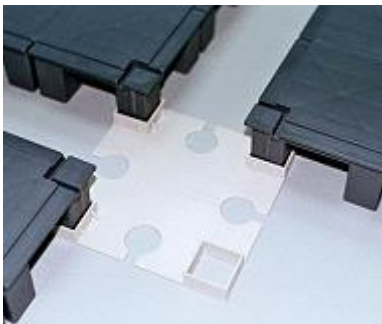
4-way Base Connector to connect corner pedestals of the UniPanel to automatically form grid-pattern of Cable Trenches

Central Cap and Flank Cap are fully accessible, and inter-changeable. Users can lift the caps easily without using special tools
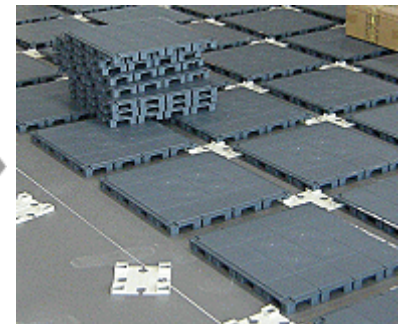
Continuous interlocking process to lay UniPanels on the floor. It follows the floor contour with no leveling required

Benefits

Retain maximum ceiling height

The Eco series comes in 3 fixed heights at 40 mm, 50 mm, and 60 mm. The unique grid-pattern cable trench system is superb at providing high capacity for cables running inside the trenches, while maintaining the low-profile heights.

	System Height	Cable Trench Width	Cable Trench Clearance
CA-600R	60 mm (2.36")	90 mm (3.54")	55 mm (2.16")
CA-500R	50 mm (1.97")	90 mm (3.54")	45 mm (1.77")
CA-400R	40 mm (1.57")	90 mm (3.54")	35 mm (1.37")

Quick Installation, Less Interference

Installation is quick and easy with whether its done by amateurs or trained contract installers. If renovating, installation may be done room by room or area by area to minimize interference in normal office operation. Full height dry wall or de-mountable partition can be erected on top of the system without interrupting cable distribution.

Cost Effective

Labor saving: only 1/2 - 2/3 the installation time compared to conventional raised floor. One installer can complete 70 to 90 sq. meters (750 - 950 SF) per working day.
Low initial cost: Save an average of 2/3 material and labor costs when comparing to traditional raised access floor.
Low maintenance costs: Maintenance costs of the ECO series is almost nonexistent
100 % reusable
In case of renovation or re-location, all main components, with the exception of the sound attenuation blanket, can be easily removed, and are 100 % reusable.

Users Friendly

Accessibility
Cables are free to extend and connect to open office low partitions, full partitions, workstation, desk top, by just replacing the Flank Cap with Exit-Cap (Flank Cap with 60 mm diameter opening). Lifting and replacing of Trench Caps are very easy, either by hand and/or screw driver, without needing special tools or a call to floor contractor.

In case the partition lays on a Cable Trench, drill a hole in the floor track and steel trench cap, then fasten by < 15 mm length blunt-head screw

Full height partition erected on top by fastening floor track onto UniPanel by < 12 mm length wafer-head screw
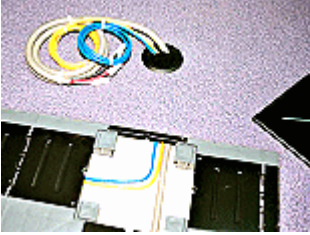

Half-height partition on ECO series Power, data, voice cables distributing under the floor, efficient and limitless

Accommodation

Accommodate all type workstations, half/full-height partitions, ZoneEx Power Distribution System

1. Routing cables from any point of Cable Trench to extend through Exit-Cap to extend to partition, wall base, desk top, or workstation.

Cable extend through
Exit-Cap and grommet

Extension through Exit-Cap
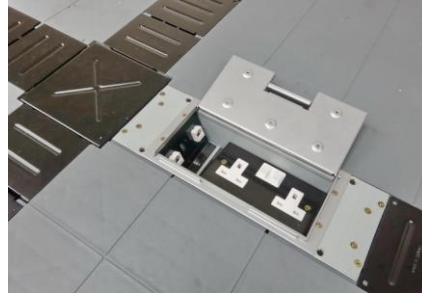to desk top or workstation

Extension through
Exit-Cap to partition

2. Through floor box at any point of Cable Trench
   To extend cables connecting to service boxes installed at Cable Trenches by just replacing the Flank Cap

SE403/603 for USA, Japan   SE603-BS for UK, Middle East   Steel lid topped by carpet
SE603 / SE403 floor box consists of steel mounting lid and galvanized steel base, with 2 power
sockets and a face plate for 3 data/voice jacks.

3. Incorporate with ZoneEx Modular Power Distribution System
   Multiple routes starting from electric panel to all workstations in each floor space.
   **One route** facilities 4 zone boxes, plug & play, extends and supports total 16 workstations (floor box).
   One floor box provides 1 X twin sockets, 3 data jack faceplate
   **Free-end jumpers:** connect to other brands' floor boxes, or connect to desktop or workstations.

Incorporate with ZoneEx Modular Power Distribution system. Distributes power from electric panel, extend and connect to workstations through Cable Trenches, and connect all workstations without cutting and sheath striping at job sites
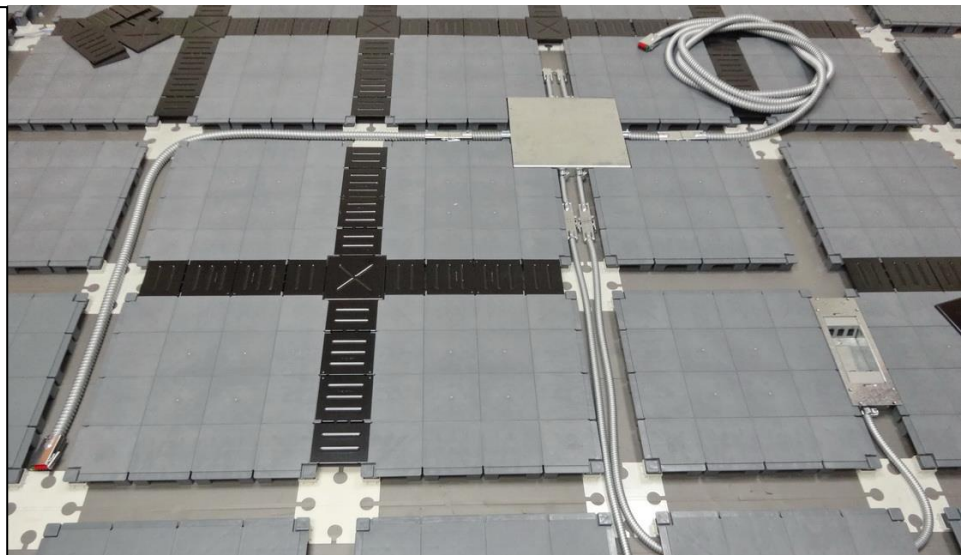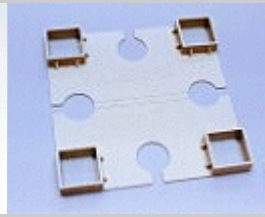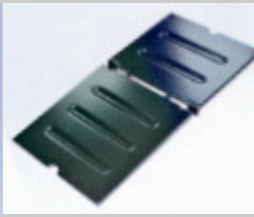
Main Components
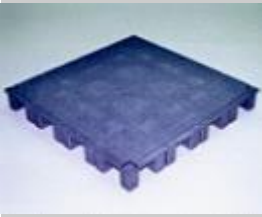
UniPanel (main panel)
CA-611R: 60 mm high
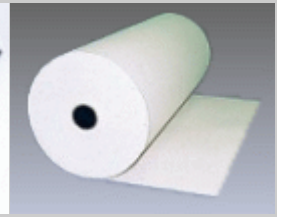CA-511R: 50 mm high
CA-411R: 40 mm high
Size: 510 mm x 510 mm
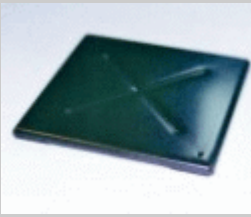
Central Cap
CA414
Thickness: 2.3 mm
Size: 150 mm X 150 mm

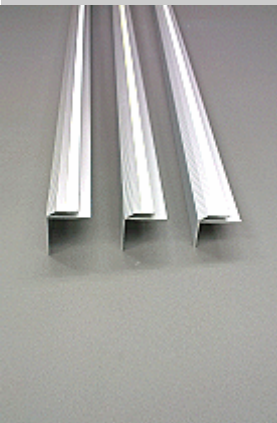**Base Connector**
CA-415 / AD615
Size: 169 mm X 169 mm

Flank Cap
AD613
Thickness: 2.3 mm
Size: 223 mm x 120 mm

Sound Attenuation Blanket
AD-331
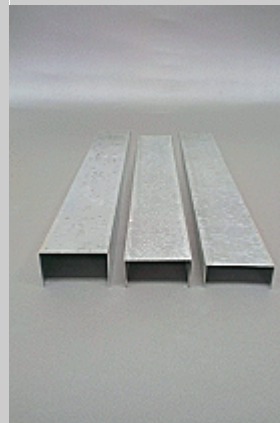2 mm thick PU foam, 1 meter width

Accessories and floor boxes

Free Standing
AD621: 60 mm H
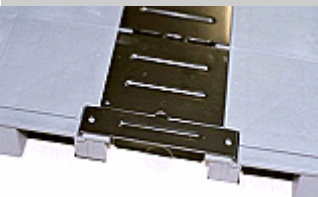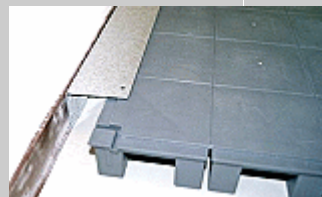AD521: 50 mm H
CA421: 40 mm H

Ramp Rail AD326

Ramp: 100 mm (4.0") W
AD625: 60 mm H
AD525: 50 mm H
CA425: 40 mm H

meet ADA regulation: ramp length greater than 12 times to system height

Starting Cap:
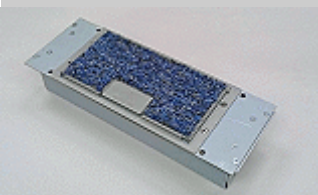to conceal gap at beginning of starting rows

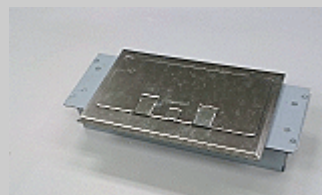Edge Rail for perimeter installation at residual less than 70~120 mm, without cutting UniPanel

W-Type ramp systems
24" wide (609 mm)

W-type 24" (609mm) wide ramp system at 1:12 and 1:20 ratio
40mm H: CA425W-480 (480mm L) / CA425W-800 (800mm L)
60mm H: CA625W-720 (720mm L) / CA625W-1200 (1200mm L)

SE603   H:60mm
SE403   H:40mm
lid: steel
2 power sockets
3 data jacks faceplates

SS603   H: 60mm
SS403   H: 40mm
lid: stainless steel
2 power sockets
3 data jacks faceplates
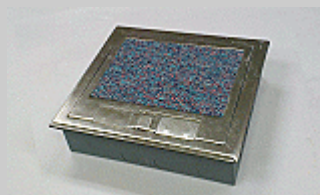
SS60   H:60mm
box base size: 252 x 220 mm
lid: stainless steel
4 power,sockets
6 data jacks faceplates

Exit-Cap & Grommet
AD613D6 & AD-518
Exit-cap: same size as Flank Cap, with 60 mm opening

Specifications

ECO series consists of UniPanel (main panel), Base Connector, Central Cap, Flank Cap, Ramp, Sound Attenuation Blanket and all necessary accessories. System when assembly are suitable for used in general office buildings and schools, except areas designed for fire escape or lifts.

Module: 600 mm x 600 mm (23.62" x 23.62")

System	CA-600R	CA-500R	CA-400R
Height	60 mm (2.36")	50 mm (1.97")	40 mm (1.57")
Cable Trench width	90 mm (3.54")	90 mm (3.54")	90 mm (3.54")
Cable Trench Clearance	55 mm (2.16")	45 mm (1.77")	35 mm (1.37")
System Weight	14 kg/m^2 (2.86 lbs/sq.ft)	13.25 kg/m^2 (2.71 lbs/sq.ft)	12.5 kg/m^2 (2.56 lbs/sq.ft)

Main Components:
UniPanel: made of fire retard, recycled polypropylene
  CA611R: size 510 x 510 x 60 mm (20.08" x 20.08" x 2.36")
  CA511R: size 510 x 510 x 50 mm (20.08" x 20.08" x 1.97")
  CA411R: 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 polycarbonate plus ABS
Central Cap: Size 150 mm X 150 mm (5.91" X 5.91")
  2.3 mm (0.09") thick steel, re-enforced ribs
  corrosion resistance treatment by electro-deposition
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.
Sound Attenuation Blanket: 2.0 mm (0.08") thickness IXPE

Accessories
Ramp, Starting Cap, Edge Rail, Alum. Ramp Rail, Alum. Free Standing, Exit-Cap, Edge Trimmer, etc., to support quick and efficient installation at perimeters

Surface floor covering: on top of ECO series
Commercial carpet tile: such as Milliken, Interface, Burmatex, …
Commercial rate vinyl tile: thickness > 4.0 mm
Hard floorings such as marble, granite, wood, are not suitable for installation on top of ECO series system.

NQC Co., LTD
HCM office: 750/13 Nguyen Kiem Str., ward 4, Phu Nhuan Dist., Hochiminh city, Vietnam
Tel: +84-8-39973623/ Fax: +84-8-39973055

Hanoi office: 5 Floor, KAILASH building
92 Tran Thai Tong Str., Dich Vong Hau ward, Cau Giay Dist., Hanoi, Vietnam
Tel: +84-4-35121983/ Fax: +84-4-35122007
Website: www.nqc-ltd.com

Performance

Fire Retard
UniPanel: Meets NFPA 253 class A rating as tests in accordance with ASTM E-648 Critical Radiant Flux. Meets BS 476, Part 7, B2

Concentration Load:
Test in accordance with CISCA 1" indenter at midpoint of edge (weakest point) of sub-panel, and caps, and at 2.5 mm (0.1") depression

UniPanel CA611R: greater than 450 psi
UniPanel CA511R: greater than 400 psi
UniPanel CA411R: greater than 400 psi
Central Cap: greater than 650 psi
Flank Cap: greater than 650 psi
Concentrate Ultimate Load of UniPanels:
greater than 500 psi
Concentrate Ultimate Load of Caps:
greater than 1300 psi

Uniform Distribution Load: in accordance with CISCA at 1.5 mm (0.06") depression:
all systems: CA600R / CA500R / CA400R:
greater than 600 psf (on 600X600mm module)
Uniform Ultimate Load:
All systems CA600R / CA500R / CA400R:
2000 psf undamaged (on 600X600mm module)

Warranty: 10 years warranty (except when product is subject to abuse, negligence, abnormal use and not in compliance with Netfloor's installation instruction).

In pursuing continuous quality improvement, the manufacturer reserves the rights to update specifications without prior notice.

NETFLOOR is a global trademark, and has been registered in more than 40 countries.

Patent granted -
USA: Invention Patent No. 5.630.300
Japan: Utility Model No. 3032638
U.K. Invention Patent No. 2309042
Australia: Invention Patent No. 679415
France: Invention Patent No. 97 99 255
China: Utility Model No. ZL 02 2 91689X
Taiwan: Invention Patent No. 127700
patent pending: all other industrial nations

MEMBER
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Ceilings & Interior Systems
Construction Association

ISO 9001
URS
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QUALITY
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