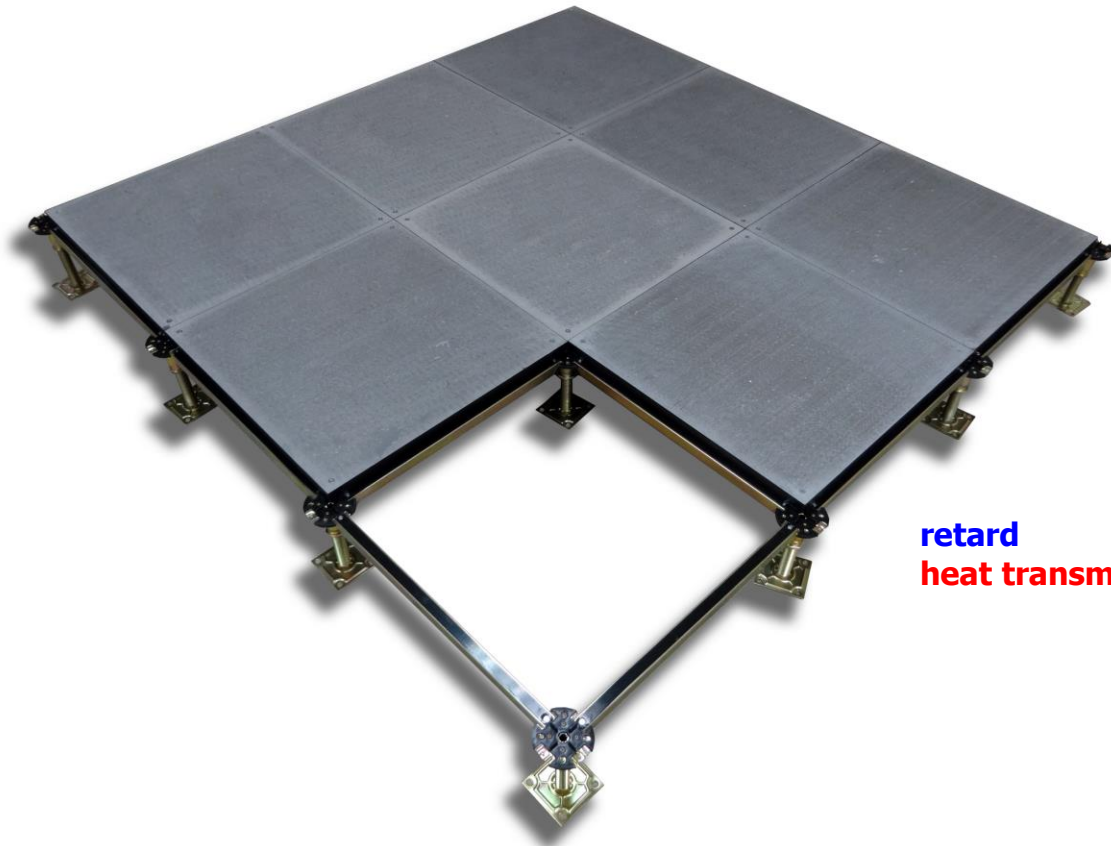


**NETFLOR®**

**Alcore®**

Raised Access Flooring System



**retard  
heat transmission**

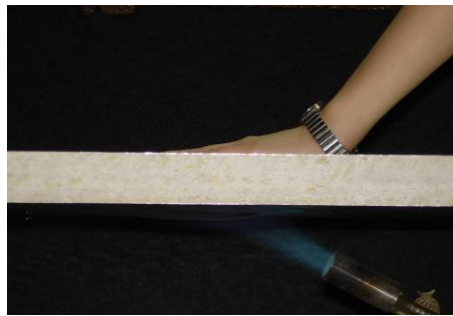
**suitable for bonding by all type  
floor coverings including porcelain tiles**

## Alcore® series

### Cement-fiber access floor

"non-combustible"  
&  
Retard "heat-transmission"

System suitable for all institutional interiors ---



safety access floor for....

#### high-rise buildings

government offices

commercial complex offices

hotels, hospitals, schools, ...



## Safety – better heat-retard than steel cementitious systems

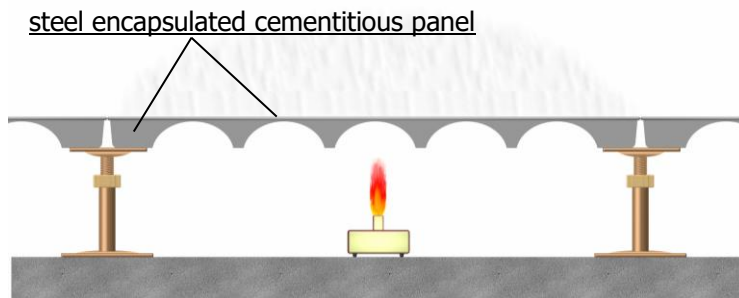
### A. "Non-Combustible" ---

Both Alcore and steel/cementitious access floor systems are non-combustible. Non-combustible is a safety factor to stop fire from burning through the access floor. However, it doesn't mean covering complete protection in terms of safety.

### B. "heat-transmission control"

The under-floor cavity provides space running pipes, cables, air-distribution, and etc. But in the meantime, it might become chamber of flame in case fire spreads underneath. When access floor's FFH (finish-floor-height) goes higher (say greater than 300 mm), will be more room for fire spread. In this regard, to safeguard lives and facilities above the access floor, heat-transmission control shall be treated equally important.

### The egg-crate steel cementitious panels transmit & spread heat quickly---

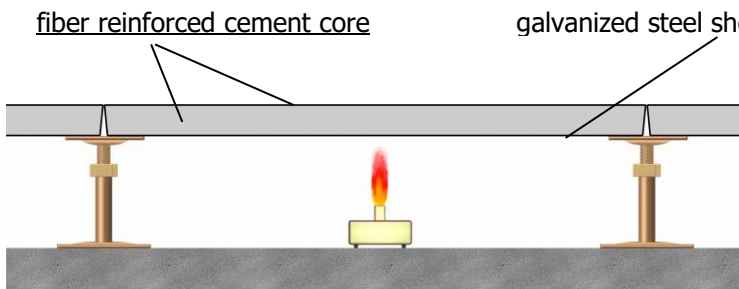


Steel cementitious access floor transmit heat almost simultaneously from bottom once fire starts under the access floor. Heat transmits through steel welding spots and flanges, spreading to surface of the access panel, which shall affect or damage to lives and facilities above.

The popular egg crate type steel cementitious access floor systems are "non-combustible", but it transmits heat because the panel encapsulated by steel which welded the bottom and top sheets. As to woodcore, it is not non-combustible. Fire and heat will be transmitted quickly as soon as fire burning through

### Alcore system retard heat transmission

Alcore access panel consists of cement fiber reinforced core, bare finish. Except bottom of the panel, there is no continuous or encapsulated steel. As a result, heat occurred at bottom of panel has been effectively retarded by the panel core.



galvanized steel sheet only bonded at bottom of panel. The cement calcium sulphate core consists of full panel thickness, which effectively retard heat transmission causing by fire.

fire at 850 degree Celsius burning at bottom of Alcore access panel, lasting 10 minutes, the surface temperature shall be less than 50 Celsius

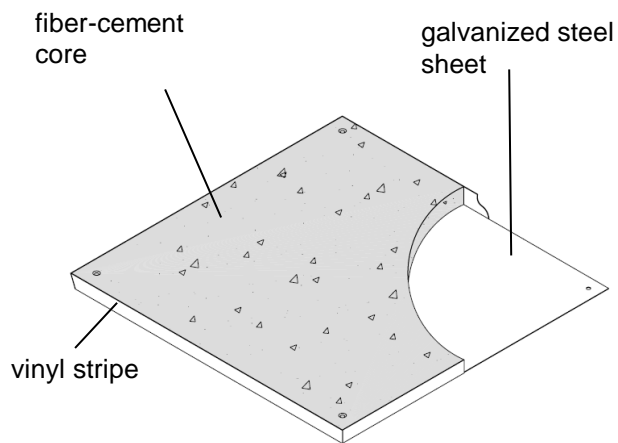
## The system

### 1. Alcore panel ---

Steel-base fiber re-enforced cement core.

The special high pressure production procedure enhance the panel core at high rigidity.

Panel bottom bonded and supported by galvanized steel sheet which contributes the panel body's elasticity. The composition performs at high loading property



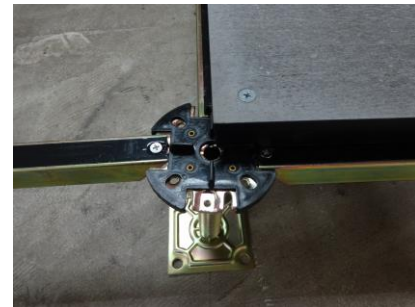
panel core retard heat effectively  
there is no continuous metal at sides

2. Under-Structures: full steel system corrosion protection by zinc plating, top of the pedestal column by plastics pad/divider, vinyl stripe at top of stringer

Standard FFH: 150 mm up to 600 mm.

FFH 150 mm ~ 300 mm, stringerless is applicable.

FFH 300 mm and higher, stringer shall be applied



### 3. Suitable for top-finished by all type of floor covering

The cement-base panel surface provides excellent substrate for bonding by all type of floor covering. The popular carpet, vinyl tiles can be bonding on top of all type access floor. However, the stoneware tiles are not suitable to bond onto steel cementitious, nor the wood-core panels, because most of those panels are galvanized steel sheet, or steel sheet with powder-coating.

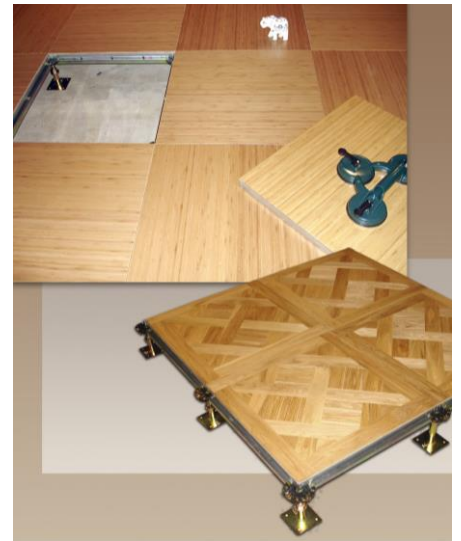
3-1 Alcore bare panel: the cement-base surface is suitable for bonded by all type of floor coverings to be bonding at job sites.

Resilient floor covering: commercial rate carpet tiles, vinyl tiles  
Porcelain tile and natural stone: also suitable to bond on top of Alcore bare panel at job site.

3-2: factory-bonding:

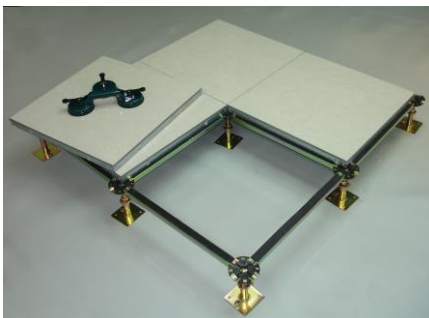
Anti-static vinyl tiles:

Engineered wood: engineered oak, bamboo tiles, etc.



Porcelain tiles:

Select micro-powder, double charge porcelain tiles available for special run.  
Sides of porcelain tiles shall be bonded by vinyl stripes as protection.



## Specifications:

System: Alcore® Access Flooring System

Manufacturer: Netfloor, Inc.

Module size: 600 mm x 600 mm

System Height: 150 mm (6") ~ 600 mm (24")

Loading property: in accordance with CISCA by 1" square indenter

<u>Systems</u>	<u>Concentration Load</u>	<u>Concentrate Ultimate Load</u>
AL3000	1000 LB (<2.5 mm depression)	2500 LB

Flammability: Non-combustible, meet BS476, part 4

Heat Transmission Control: Bottom surface of the access panel exposure to temperature 850°C for 10 minutes shall not transmit to the top surface temperature more than 50°C.

### Main Components:

1. Access panel: fiber-cement core, bottom bonded and supported by galvanized steel sheet, four sides bonded by vinyl stripe.

- 1.1 Size: 600 mm x 600 mm
- 1.2 Thickness: 30 mm
- 1.3 Bottom: galvanized steel sheet, thickness 0.5 mm
- 1.4 PVC stripes bonded at four sides

2. Understructure: consists of adjustable pedestal and stringer.

#### 2.1 Pedestal

2.1.1 Pedestal Headset: Steel plate, plastics divider on top, corrosion resistance by zinc plating no less than 5 micron.

2.1.2 Pedestal column and base plate: Full steel, corrosion protection by zinc plating, no less than 5 micron. Pedestal column diameter no less than M16. Base plate size no less than 100 mm x 100 mm.

2.2 Stringer: Electro galvanized steel, top bonded with vinyl stripe.

Stringer is optional when FFH lower than 300 mm height.

Stringer shall be used when FFH greater than 300 mm.

### Floor Coverings

The system is suitable bonded by all commercial rate floorings including carpet tile, vinyl tiles, porcelain tiles, engineered wood and bamboo tiles.

Accessories: cutout panel, outlet box, boarder components to support quick and efficient installation.

Warranty: 5 years limited warranty applied to all Alcore systems.

In pursuing continuous quality improvement, the manufacturer reserves the right to vary specifications without prior notice.

[www.net-floor.com](http://www.net-floor.com)



a product division of Netfloor, Inc.  
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