

Net-Contain™ Sliding Door Low Profile Cold Aisle Containment System

PANDUIT®

SPECIFICATION SHEET

specifications

The sliding door low profile aisle containment system shall create a structure including end of row doors and ceiling panels that enclose the cold aisle between rows of cabinets to segregate cold and hot air streams to and from equipment. This passive system shall contain no moving parts. Designed to contain the cold air, the system shall be deployed on raised floors. The system shall leverage existing data center cooling and equipment fans to move the flow of exhaust air and cooling air.

The system shall address heat loads up to 20kW per cabinet to enable dense server applications and eliminate data center hot spots versus conventional raised floor cooling systems that manage heat loads up to 7-8kW/cabinet. The modular system shall be capable of being added without disrupting existing in-cabinet equipment and cabling to enable a migration path.



technical information

Integral Low Profile Ceiling Structure Dimensions:

Net-Access™ 800mm Cabinets:

4' (1200mm) aisle width:	CXCAC08F04IRBL*: 800mm W x 1200mm D
6' (1800mm) aisle width:	CXCAC08F06IRBL*: 800mm W x 1800mm D

Net-SERV® 700mm Cabinets:

4' (1200mm) aisle width:	NSCAC07F04IRBL*: 700mm W x 1200mm D
6' (1800mm) aisle width:	NSCAC07F06IRBL*: 700mm W x 1800mm D

Net-SERV® 600mm Cabinets:

4' (1200mm) aisle width:	NSCAC06F04IRBL*: 600mm W x 1200mm D
6' (1800mm) aisle width:	NSCAC06F06IRBL*: 600mm W x 1800mm D

End of row dual sliding doors:	NACACT5F08DSBL*: 2313mm H x 1800mm W (adjustable to 1200mm W) x 155mm D
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key features and benefits

Energy efficiency	Prevents hot spots and allows installation of high-density server cabinets close together in new builds or existing data centers reducing the need for extra real estate and CRAH units lowering operating costs
Optimized airflow distribution	Prevents mixing of cold and hot air streams; eliminates recirculation of hot air to cabinet inlets; provides uniform temperature at the inlets of IT equipment; prevents cold air bypass optimizing cool air delivery
Passive system	Contains no moving parts; provides more efficiency than fan driven products eliminating acoustical noise in the data center for improved system reliability
Improves thermal performance	Allows raising supply air set point temperature; higher return air temperature increases the thermal efficiency of cooling units reducing cooling energy cost up to 25 – 30%
Dual sliding door	Can be installed in either 4' (1200mm) or 6' (1800mm) aisle; mounts to either Net-Access™ or Net-SERV® Cabinets; damper system keeps doors from slamming closed and ensures the doors stay closed; uses gravity to automatically close doors ensuring network protection
Integral roofing	4' or 6' lengths of 600mm, 700mm, 800mm width roofing sections available; access holes allow fire suppression to enter the containment for improved safety and security

applications

The Net-Contain™ System separates cold and hot data center air streams to and from equipment. It manages airflow at the source, increases CRAH unit cooling efficiency, and significantly lowers operating expenses. The Net-Contain™ System leverages existing data center cooling and equipment fans to move the flow of exhaust air and cooling air, reducing energy costs and noise levels.

This passive system contains no moving parts, resulting in a more energy efficient solution than comparable forced-air options.

This integrated system is compatible with numerous Panduit product lines including; Net-Access™ Cabinets, Net-SERV® Cabinets, CabRunner®, FiberRunner®, and Wyr-Grid® Overhead Cable Routing Systems.

Net-Contain™ Sliding Door Low Profile Cold Aisle Containment System

Integral low profile ceiling structures Net-Access™ 800mm cabinets:

4' (1200mm)
aisle width: CXCAC08F04IRBL*

6' (1800mm)
aisle width: CXCAC08F06IRBL*

Net-SERV® 700mm Cabinets:

4' (1200mm)
aisle width: NSCAC07F04IRBL*

6' (1800mm)
aisle width: NSCAC07F06IRBL*

Net-SERV® 600mm Cabinets:

4' (1200mm)
aisle width: NSCAC06F04IRBL*

6' (1800mm)
aisle width: NSCAC06F06IRBL*

End of row dual
sliding doors: NACACT5F08DSBL*

Net-Access™ Switch Cabinet (CN Family)* with Full Perforated Front and Split Perforated Rear Doors

With solid side panels

32" w x 45 RU: CN1

No side panels

32" w x 45 RU: CN2

Net-Access™ Server Cabinet (CS Family)* with Full Perforated Front and Split Perforated Rear Doors

With solid side panels

32" w x 45 RU: CS1

No side panels

32" w x 45 RU: CS2

Net-SERV® Standard Density Cable Management Configuration with Full Perforated Front and Split Perforated Rear Doors

With solid side panels

28" w x 45 RU: S752C122F

24" w x 45 RU: S652C122F

No side panels

28" w x 45 RU: S752C129F

24" w x 45 RU: S652C129F

Net-SERV® Vertical Patch Cable Management Configuration with Full Perforated Front and Split Perforated Rear Doors

With solid side panels

28" w x 45 RU: S752C122P

No side panels

28" w x 45 RU: S752C129P

Net-SERV® High Density Cable Management Configuration with Full Perforated Front and Split Perforated Rear Doors

With solid side panels

28" w x 45 RU: S752C122H

24" w x 45 RU: S652C122H

No side panels

28" w x 45 RU: S752C129H

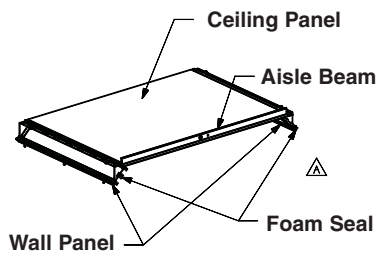
24" w x 45 RU: S652C129H

Note: 42 RU Net-Access™ and Net-SERV® Cabinets can also be used with the Net-Contain™ System.

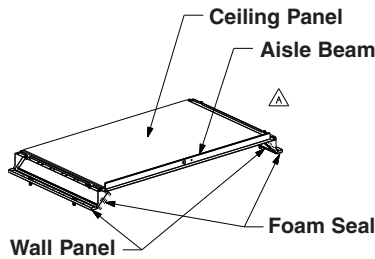
Net-Contain™ Sliding Door Low Profile Cold Aisle Containment System

integral low profile ceiling structures
for 4'(1200mm) aisle

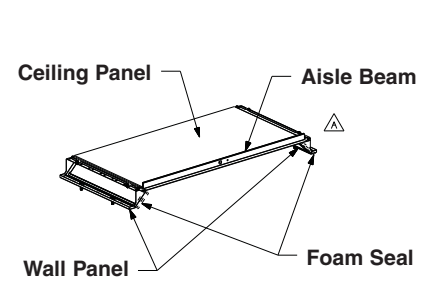
800mm Ceiling Structure



700mm Ceiling Structure

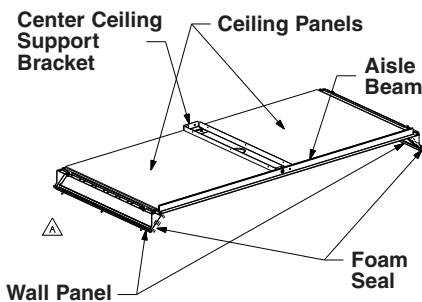


600mm Ceiling Structure

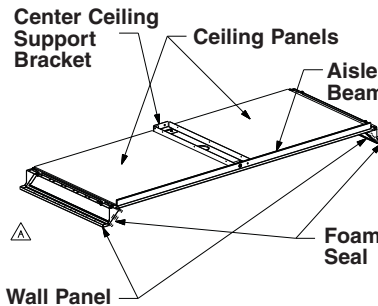


for 6' (1800mm) aisle

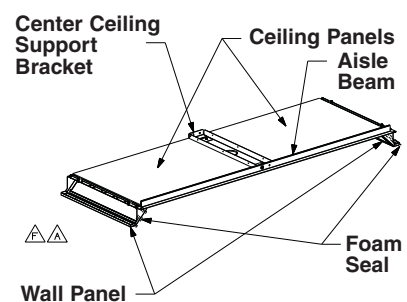
800mm Ceiling Structure



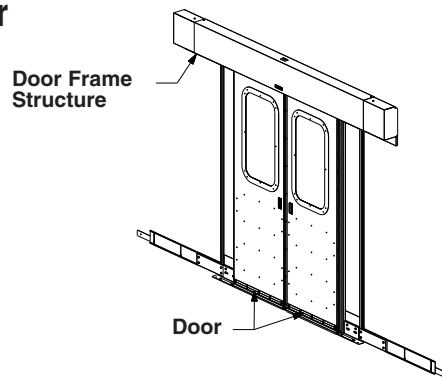
700mm Ceiling Structure



600mm Ceiling Structure



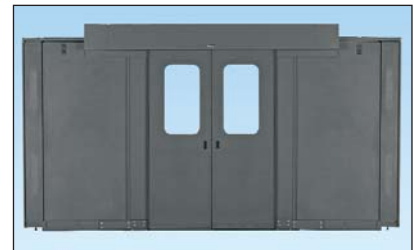
end of row dual sliding door



Open position



Uses gravity for automatic closure



Closed position

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7/2012