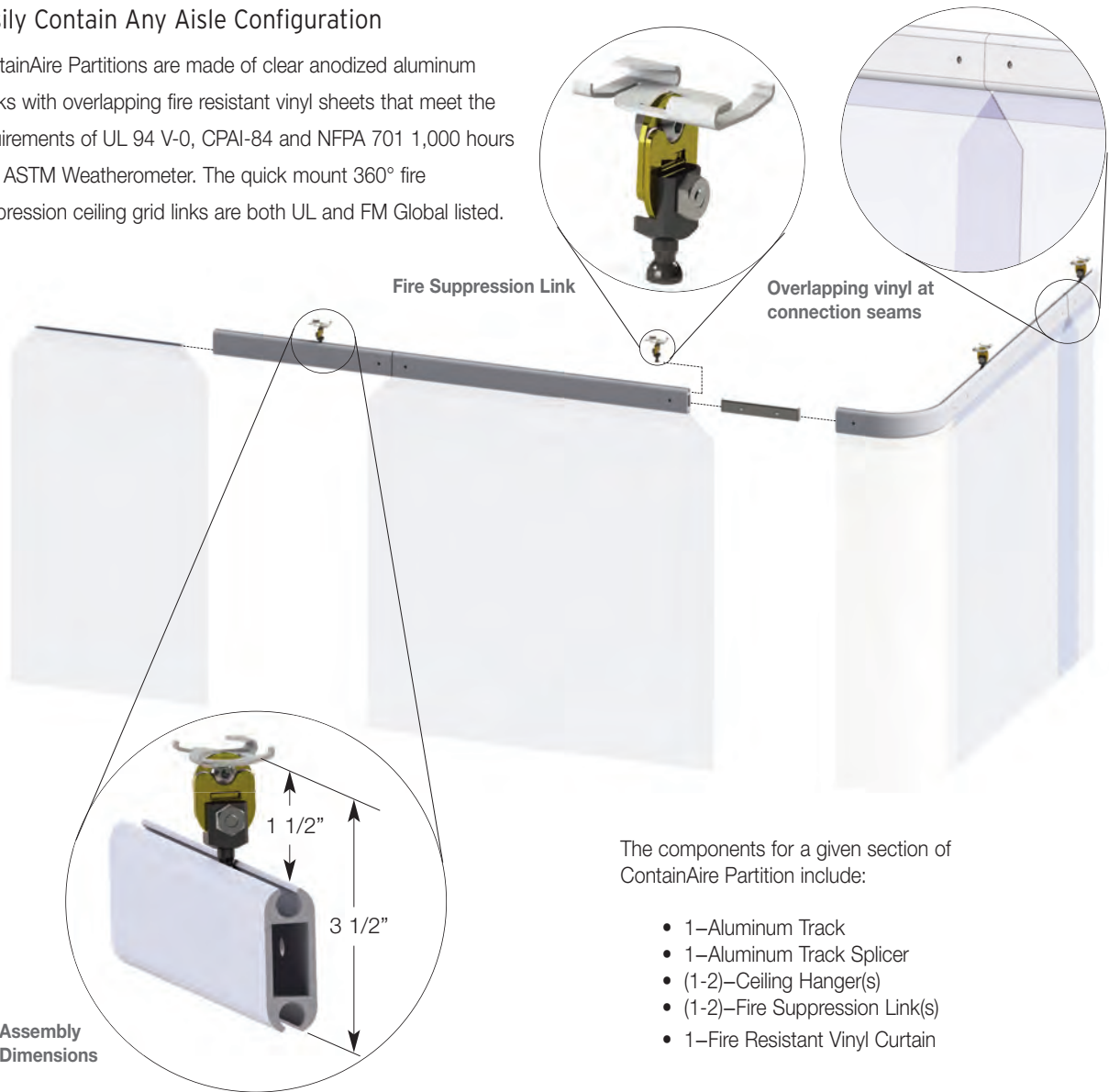# ContainAire Partitions

Easily Contain Any Aisle Configuration

ContainAire Partitions are made of clear anodized aluminum tracks with overlapping fire resistant vinyl sheets that meet the requirements of UL 94 V-0, CPAI-84 and NFPA 701 1,000 hours U.V. ASTM Weatherometer. The quick mount 360° fire suppression ceiling grid links are both UL and FM Global listed.

Fire Suppression Link

Overlapping vinyl at connection seams

1 1/2"

3 1/2"

Assembly Dimensions

The components for a given section of ContainAire Partition include:

• 1–Aluminum Track
• 1–Aluminum Track Splicer
• (1-2)–Ceiling Hanger(s)
• (1-2)–Fire Suppression Link(s)
• 1–Fire Resistant Vinyl Curtain

The ContainAire Partitions come in pre-packaged sections which must be ordered to meet the dimensions of your specific aisle containment need. A typical order would include a number of sections to match the length and height of a given aisle, and four corners.

Partitions come in sizes based on two measurements: Vinyl drop-down heights, and horizontal track lengths. Note that the additional 3.5" of height of the track and hanger are not listed the dimensions below.

ContainAire Partition Product Selection Chart

Vertical Length of Vinyl	Horizontal Track Length						
	1'	2'	3'	4'	5'	6'	1'x1' Corners
25.5"	CA255x01	CA255x02	CA255x03	CA255x04	CA255x05	CA255x06	CACOR255
52.5"	CA525x01	CA525x02	CA525x03	CA525x04	CA525x05	CA525x06	CACOR525
94.5"	CA945x01	CA945x02		CA945x04			CACOR945
106.5"	CA1065x01	CA1065x02		CA1065x04			CACOR1065
118.5"	CA1185x01	CA1185x02		CA1185x04			CACOR1185
142.5"	CA1425x01	CA1425x02		CA1425x04			CACOR1425
178.5"	CA1785x01	CA1785x02		CA1785x04			CACOR1785

ContainAire Partitions

The Example below is based on the adjacent diagram.

Given:

Two rows of 8 racks each forming an aisle; one row is comprised of 8 - 24" wide x 8' tall racks while the other row is comprised of 8 - 24" wide x 7' tall racks. There is a 4' cold aisle between the two racks, and you would like to use ContainAire Partitions to seal the area over the racks.

Solution:

Multiple parts will need to be specified, 4 corners and enough sections of horizontal track to fill the containment space above the racks. First the height between the racks and the ceiling should be measured. In our example we have the following:

49" above the 8' row of racks and 61" above the 7' row of racks.

To fill the partition space above the 8' racks the vinyl curtain would need to be a minimum: 49" – 3.5" (hanger & track) = 45.5". After consulting the chart 52.5" is the next largest size and therefore the length required to fill the containment space. After looking at the 7' row of racks it can be determined that the 94.5" height is required. (61"-3.5" = 57.5")

Note: Tate recommends ordering lengths that are a minimum of 3-6 inches longer than required.

For cases in which the rack heights are uneven in a single row you should always select the vinyl length of the partition based on the distance from the shortest rack to the ceiling for that section of horizontal track.

We can also select our corners based on the dimensions above. We will need four: two for each size for each end of the racks.

The next thing to determine is the length and quantity of track required. After measuring our row of racks we can see that the row is a total of 16' long. As the corners are each 1' x 1' we can subtract 2' from our 16' length resulting in 14' of horizontal track length for both rows.
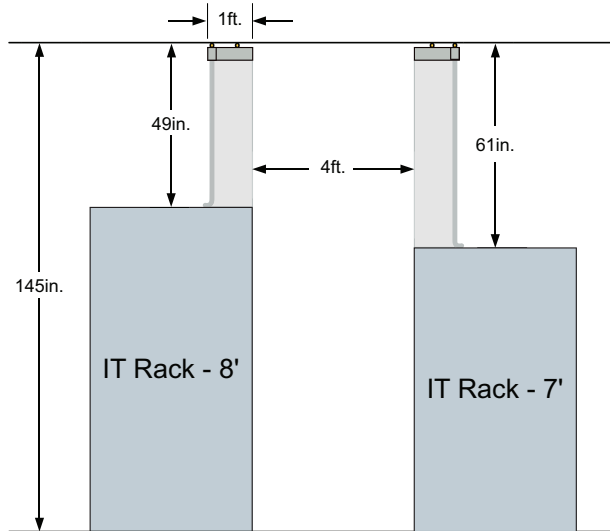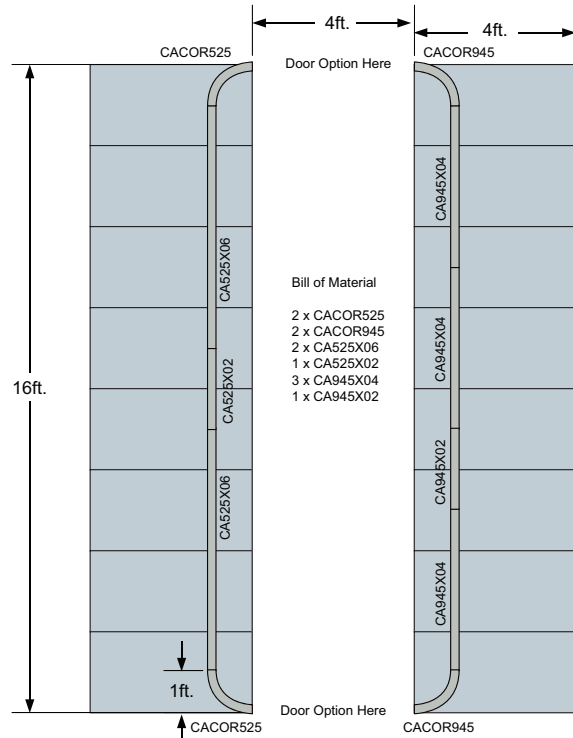
For our example, on the 8' row of racks to meet 14' of horizontal track at 52.5", the order will be:

2–CA525X06 (6' x 52.5") and 1–CA525X02 (2' x 52.5")

However, for the 7' row of racks to meet 14' of horizontal track at 94.5" no 6' track lengths are available so the order will be:

3–CA945X04 (4' x 94.5") and 1–CA945X02 (2' x 94.5")

ContainAire Partition Row Layout

Note: Although you may choose any combination of track lengths to add up to your total horizontal row length, it is recommended you use the minimal number of track lengths possible to reduce costs, improve ease of installation and reduce potential air leakage at each seam. It is important to ensure that the overall partition track length is greater than or equal to the total row length measured.

Tate®