

DOORS USED FOR SMOKE CONTROL

Smoke Barrier and Smoke Partitions are terms used in the building codes to define two different applications that may require doors draft and smoke control to meet UL 1784.

Smoke barriers are continuous walls, ceilings, and floors that are constructed to restrict the transfer of smoke in a building. Typically, doors in a smoke barrier are rated doors, however there is an exception for non-latching, cross-corridor, double-egress application (see [Technical Bulletin: 20-Minute Double Egress Smoke Barrier Doors](#)). VT refers to these doors for this exception as smoke barrier doors or smoke barrier labels.

Smoke partitions are walls that are constructed to limit the transfer of smoke in the case of a fire. Smoke partitions are not required to be rated openings and the doors are also un-rated. Doors are required to be latching and self-closing. VT doors are available to meet UL 1784 for smoke and draft control for all non-rated and rated offerings. To achieve the smoke control rating, listed Category H gasketing needs to be installed around the perimeter of the frame and at the meeting edges of pairs. Category H gasket systems are surface applied, either with adhesive or mechanically. Gasketing for smoke control to be supplied by others.

For specific information, consult the adopted IBC and local building code that are applicable to your project.

Fire-Rated Smoke Doors:

VT fire rated doors will have a “S” on the label, along with the statement below. The application of gasketing is not required to maintain the stated positive-pressure fire rating.

Smoke & Draft Control Rating requires listed Category H gasket. See installation instructions.

Non-Rated Smoke Doors:

Non-rated, smoke doors are available with labels stating the following. These labels are available to be applied in the field as they are not associated with fire approvals.

To achieve the above “S” rating a listed Category H gasket needs to be installed around the perimeter of the frame.