

FIRE DOOR LABELING GUIDELINES

Marking Requirements: Each product is marked on door slab and packaging:
The certification label shall contain at a minimum:

- QAI logo with “c” and “us” indicatorⁱ
- LISTED FIRE DOOR
- Manufacturer/Machiners Information
 - Name
 - Manufacturing Addressⁱⁱ
 - Logo [Optional]
- Product Designation including Name/Modelⁱⁱⁱ
- Fire Protection Rating
- Bolt Throw
- Serial Number^{iv}
- The words “DO NOT REMOVE OR COVER THIS LABEL”
- The words “SEE INSTALLATION INSTRUCTIONS”

Label Location: Once the door machining has been completed a permanent QAI label shall be applied within the top 1/3 of the door on the hinge side.

Wood Edged Doors: The marking label shall be applied with fasteners (minimum 5/8” (16mm) screw type nails or minimum 18 gauge staples with 1/4”(6.4 mm) crown and 5/8”(16mm) in length). Two fasteners are required, one at each end of the label.

Steel Edged Doors: The marking label shall be applied with 1/8” (3.2mm) diameter rivets, tack welds or adhesive.

Exceptions:

1. If a continuous hinge is used, the QAI label shall be attached to the top of the door
2. If a continuous hinge and a concealed closer is used, the QAI label shall be attached on the face of the door within the top 1/3 near the hinge side.

Requirements for Additional Ratings and Hardware:

Positive Pressure Rating:

If the door slab meets the positive pressure requirement, the following is required:

- The words:
 - “MEETS UL 10C”
 - “CAT. A” or “CAT. B”
 - “POSITIVE PRESSURE”^v [Optional]

Temperature Rise
Rating:

National Building Code (NBC) Requirement [CANADA]

If the door is labeled as meeting CAN/ULC-S104 requirements, then a temperature statement may be required on each door as per the NBC.

- Required on the labels are the words:
 - “TEMP RISE OF 250°C MAX @ X WHERE LITES DO NOT EXCEED 100 IN² (0.0645 M²)”^{vi}
 - Where X =
 - 30 MIN
 - 60 MIN

International Building Code (IBC) Requirements [US]

If the door is labeled as meeting IBC requirements, then only those doors in exit enclosures are required to have a temperature rise rating. Fire doors in exit enclosures shall have a temperature rise of not more than 450°F.

- Required on the labels are the words:
 - “TEMP RISE OF X MAX @ 30 MIN WHERE LITES DO NOT EXCEED 100 IN²”^{vii}
 - Where X =
 - 250°F
 - 450°F

Smoke and Draft
Control Rating:

Door must meet the positive pressure requirements and comply with UL 1784

- A Listed gasket to UL 1784 must be installed as per the listing

Installation of smoke doors shall be in accordance with NFPA 105

Labels shall have the following:

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 Mark
- The words
 - “SMOKE AND DRAFT CONTROL RATING REQUIRES A LISTED CATEGORY H GASKET”
 - “SMOKE LEAKAGE < 3 cfm/ft² per UL 1784” [Optional]

Minimum Bolt Throw:

(Minimum Bolt Throws are outlined in each Machining Specification)

- The Minimum Bolt Throw statement shall be included on the label if the verified bolt throw exceeds what is allowed in NFPA 80, Table 2-4.4.3. with the following statement:
 - “MIN BOLT THROW – X”
 - Where X = minimum bolt throw (i.e. 1/2”, 5/8”, or 3/4”)
- The Minimum Bolt Throw statement is not required if the bolt throw is equal to or less than what is allowed in NFPA 80, Table 2-4.4.3

Note: *NFPA 80, Section 2-4.4.6 states “The throw of single-point latch bolts shall not be less than the minimum shown on the fire door label. If the minimum throw is not shown or the door does not bear a label, the minimum throw shall be as specified in Table 2-4.4.3.”*

Without Hose Stream:
[US Only]

For 20 minute fire doors not meeting the hose stream requirements. Labels are required to have the words “20 MINUTE WITHOUT HOSE STREAM”

Fire Exit Hardware:

Per NFPA 80 2-4.4.2 any and all doors to be equipped with Fire Exit Hardware shall have the statement “FIRE DOOR TO BE EQUIPPED WITH FIRE EXIT HARDWARE”.

If the fire door is to have Surface-Mounted Fire Exit Hardware (as defined in NFPA 80 1-3.4) then the label shall state “FIRE DOOR TO BE EQUIPPED WITH SURFACE-MOUNTED FIRE EXIT HARDWARE.”

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- i “c” indicator for Canada and “us” indicator for United States. 20 minute doors without hose stream must bear the QAI Logo with “us” indicator only
 - ii If multiple plants, then location or location code shall be noted on the label
 - iii The product designation must be sufficient to identify the product’s manufacturing listing report
 - iv For open stock labels, the serial number is unique and therefore also satisfies the requirements for a control number or listee’s name
 - v IBC permits UL 10C or NFPA 252. If NFPA 252 only is referenced, then the statement “Positive Pressure” is required.
 - vi Doors utilizing glazing temperature rise requirements shall be labeled with appropriate temperature rise