TIMBERLAND DOOR

RATINGS / LABELS /
SMOKE / GLASS /
HARDWARE /
INSPECTION

Fire-rated doors. Clearly explained.

THE ESSENTIAL GUIDE

UNDERSTAND THE RATING +
SEE THE COMPLETE ASSEMBLY.

A practical reference for dealers,
designers, and building professionals.



THE BIG PICTURE

ONE DOOR – MANY WORKING PARTS.

A LABELED LEAF IS ONLY THE BEGINNING. COMPATIBILITY MAKES THE ASSEMBLY. [1,2]

1 FRAME — LISTED WALL, SIZE, RATING, ANCHORAGE.

2 DOOR LEAF — LABELED CONSTRUCTION AND APPROVED DESIGN.

3 HINGES – CORRECT TYPE, QUANTITY, SIZE, AND FASTENERS.

4 CLOSER – CLOSES THE DOOR FULLY; RELEASE FUNCTIONS VERIFIED.

5 GLAZING – APPROVED GLASS, KIT, AND INSTALLATION.

6 LATCH + SEALS – POSITIVE LATCHING AND REQUIRED EDGE/SMOKE SEALS.

RATINGS + TEST METHODS

WHAT THE MINUTES TELL YOU

20 MINUTES — CERTAIN CORRIDOR FIRE PARTITIONS.

45 MINUTES — CERTAIN 1-HOUR BARRIERS OR PARTITIONS.

60 MINUTES — CERTAIN 1-HOUR SHAFT OR EXIT ENCLOSURES.

90 MINUTES — COMMONLY ASSOCIATED WITH OPENINGS IN 2-HOUR FIRE BARRIERS.

*Fire-protection ratings describe laboratory performance, not guaranteed escape time. [2]

Positive pressure >>>>> Hot gases push toward perimeter gaps.

UL 10C tests positive-pressure performance. The referenced 2024 New York code also permits NFPA 252 using its positive-pressure method. Neutral-pressure testing alone should not be assumed acceptable. [5]

THE STANDARDS AT A GLANCE

NFPA 80 – Install + maintain

NFPA 252 / UL 10C – Fire test

UL 1784 – Air leakage test

NFPA 105 – Smoke door assemblies

Category B Fire-Rated Doors

The look you want. The rating you need.

RATING	MAX SINGLE	MAX PAIR	MAX LITE AREA	MIN THICKNESS
20 MIN	3 FT 6 IN X 8 FT	7 FT X 8 FT	1,296 SQ IN	1 3/8"
45 MIN	3 FT 6 IN X 8 FT	7 FT X 8 FT	1,296 SQ IN	1 3/4"
60 MIN	3 FT 6 IN X 8 FT	7 FT X 8 FT	100 SQ IN	1 3/4"
90 MIN	3 FT 6 IN X 8 FT	NOT LISTED	100 SQ IN	1 3/4"

Published offerings coordinate with non-rated designs. Confirm the selected configuration. [8]

To achieve a consistent designer look while providing additional fire protection, all Timberland fire-rated doors are built and designed to match our non-fire-rated doors. We offer 20-, 45-, 60-, and 90-minute category B fire-rated doors, and most styles are available for all ratings.

Before you order: confirm style/core, size, glass geometry, hardware, frame, seals, label, machining, trim limits, and installation instructions.

Published maximums do not approve every combination.

LABELS + SEALS

Read Beyond the Fire Rating Number

FIRE PERFORMANCE, SMOKE LEAKAGE, AND HEAT TRANSFER ARE SEPARATE REQUIREMENTS.

Certification Check

- Agency
- Product Identity
- Rating
- Smoke
- Temperature Rise
- Test Basis
- Hardware Conditions

CATEGORY B + G

SEAL FOR THE FIRE TEST

Category B needs an added edge seal. Obtain the exact compatible Category G edge-sealing system and instructions. [9]

CATEGORY H / S

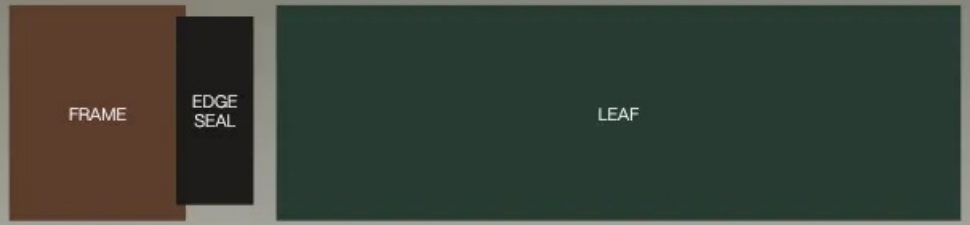
CONTROL SMOKE LEAKAGE

S marking identifies smoke and draft control conditions. Install the specified smoke gasketing; an edge seal alone may not perform both jobs. [6,9]

Typical smoke limit: 3.0 cfm/sq ft at 0.10 in water, at ambient and 400 F.
Check artificial-bottom-seal conditions; some applications require testing without it. [6

The Coordinated Assembly

Intumescent seals respond to heat. Smoke gaskets restrict leakage.
A combined product must be approved for both purposes. [9]



Preserve label visibility and legibility. Approved labels can be metallic or nonmetallic.
Keep the certification documents with the project record. [1,4]

Fire protection contains fire. Fire resistance limits heat transfer. Verify safety glazing, exposed area, dimensions, quantity, edge distances, sidelights, and transoms.

Glass and the Vision-Lite System

Specify the entire vision-lite system, not only the glass rating. [2,4]

1 Glass type + rating

2 Lite frame + glazing materials

3 Cutout size + location

4 Fasteners + installation

TEMPERATURE RISE

250 F | 450 F | 650 F

Common rise limits above initial temperature during the first 30 minutes. Lower is more restrictive.

**ALSO VERIFY HUMAN-IMPACT SAFETY GLAZING, EXPOSED AREA, DIMENSIONS, QUANTITY, EDGE DISTANCES, AND ANY SIDELIGHTS/TRANSOMS. D = DOOR; H = HOSE STREAM; T = TEMPERATURE RISE; W = WALL CRITERIA. [3,4

Make every connection count

Individually rated components still need to form a permitted, compatible assembly. [1,4]

1 Close — self-close or automatically close.

2 Latch — positively latch; match latch, strike, and preparations.

3 Release — verify alarm and power-loss behavior.

HARDWARE DECISIONS

Exit devices: use fire exit hardware where required.

Pairs: coordinate inactive-leaf latching, astragals, and closing sequence.

Electrical: resolve locks, strikes, operators, and power transfers early.

INSTALLATION



**Follow the frame listing for anchors, wall type, and grout/filler. Do not apply generic gap or trim allowance.

INSPECTION + UPKEEP

Performance is an ongoing job

NFPA 80 includes annual inspections. Use qualified personnel and the applicable edition. [4,11]

1 Labels - Present, visible, and legible.

2 Condition - No open holes or breaks; glazing and beads secure.

3 Components - Hardware and seals secure; no missing parts or unauthorized changes.

4 Clearances - Measure against the applicable standard and listing.

5 Operation - Door closes fully and latches without interference.

6 Pairs + release - Verify closing sequence and automatic-release functions.*

*EDUCATIONAL PROMPTS ADAPTED FROM NFPA'S 2019-BASED CHECKLIST; NOT A COMPLETE INSPECTION FORM. VERIFY ADOPTED EDITION.

FIND IT > DOCUMENT IT > CORRECT IT > RETEST

Record opening ID, date, inspector, labels, measured gaps, results, photos, corrective work, and retest.
Keep paths clear. Be careful to not wedge doors, tape latches, remove closers, or conceal labels.

QUICK ANSWERS + PROJECT PLANNING

F.A.Q

Can a 90-minute leaf replace a 20-minute leaf?

Potentially, after review of the complete assembly, smoke/glazing conditions, and code requirements. [4]

Does solid core mean fire rated?

No. Weight, density, and appearance do not establish certification. Specify the labeled product. [1,2]

Can we match a non-rated design?

Most styles at Timberland Door are available across ratings. Confirm the selected design and configuration. [8

Can we add decorative glass or a louver?

Only with a permitted rated configuration.

Can we replace a missing label ourselves?

Use an authorized certification process.

Are all 20-minute doors hose-stream tested?

No. Read the label and listing.

SOURCES + SCOPE

The details behind the guide

[1] UL Solutions | Doors, Windows and Related Hardware Application Guide
Assembly selection, labels, temperature rise, and certification context.

[2] UL Solutions | Fire-Resistance Rating and Opening Protectives
Explains wall versus opening-protective performance and test criteria.

[3] ICC | 2024 IBC Fire Safety code-change material, FS63-24
Table 716.1(2) context. This is proposal material, not an adopted code or final amendment.

[4] Steel Door Institute | SDI 118-21, reaffirmed 2026
Industry guidance on frames, glazing, hardware, labels, and ratings; not a Timberland listing.

[5] New York State | 2024 Building Code, Section 716.2.1.1
Official state-hosted code source for the positive-pressure test-method example.

[6] UL Solutions | Smoke and Draft Control Door Assemblies
UL 1784, smoke leakage, and bottom-seal test context. Older explanatory source; historical code numbering.

[7] NFPA | NFPA 80 and NFPA 252 official document portals
Use the portals for official editions, amendments, and access. NFPA 80: installation/maintenance; NFPA 252: fire testing.

[8] Timberland Door | Design Options, Fire Rated Doors
Manufacturer-published ratings, Category B, thickness, sizes, and lite limits.

[9] UL | Positive-pressure categories, White Book, Fire Doors GSNV
Historical UL category definitions A/B and G/H; verify current individual certification.

[10] UL Solutions | Emergency Exits, Panic Hardware and UL 305
Distinguishes panic hardware testing from additional fire-door testing.

[11] UL Solutions | Fire Door Inspection and Field Evaluation Programs
Annual inspection and field evaluation serve different purposes.

[12] NFPA | Inspection Checklist for Swinging Door with Builders Hardware
Educational checklist based on NFPA 80 (2019), not a substitute for the applicable edition.

Additional access: NFPA 252 | NFPA 105 | UL Product iQ

Scope and verification limits: U.S. side-hinged interior swinging doors. Current public pages were checked; no project-specific Timberland listing was supplied. Complete NFPA text and the ICC model-code page were not fully accessible. Confirm official editions, TIAs/errata, adopted codes, local amendments, and current listings. Historical guides and code-change material are explanatory, not adopted requirements. Graphics are conceptual and not to scale.

Scope: U.S. side-hinged interior swinging doors. Public pages checked; no project-specific Timberland listing supplied. Confirm official editions, TIAs/errata, adopted codes, local amendments, and current listings. Graphics are conceptual and not to scale.

**Adopted code, local amendments, approved plans, listing, and AHJ govern. Educational guide, not an approved submittal.

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