Firestop — The Stanvac Standard

SP 7:2026 — NATIONAL BUILDING CONSTRUCTION STANDARDS (NBCS) · FOR BUILDERS · MEP CONSULTANTS · ARCHITECTS · CBRI CERTIFIED · IS 12458:2019

Passive fire is a science of many technologies. Stanvac masters them all.

31 years of industrial chemistry · one Gurugram plant · 41 industries · trusted by Reliance, Adani, Tata Steel, SAIL and UltraTech.

WHERE PART F APPLIES

From 9 metres up, and in every plant over 2,000 sq m. Every service penetration in a building like this carries its own IS 12458 report.

1 THE MASTERY — EVERY DISCIPLINE OF PASSIVE FIRE, UNDER ONE ROOF

- **Cementitious firestop mortar. Ablative barriers. Intumescent circuit-integrity coatings. Fire-retardant panel finishes.** Four chemistries, **one company**.
- Each tested to the method that governs it — **IS 12458:2019** furnace **+ mandatory hose stream** for seals, **IEC 60331 / 60332** for cables.
- Most brands sell one. Stanvac practises **all** — a Stanvac specification has **no gaps**.

2 THE MANDATE — NBC 2016 WITHDRAWN · NBCS 2026 IN FORCE W.E.F. 30 APRIL 2026

- **NBCS 2026 Part F, Clause 3.5.4.4** — every service penetration through fire-rated construction sealed: **minimum 120 minutes, tested per IS 12458:2019 — including the mandatory hose stream test**.
- **NBC 2016 demanded the fire stop but never named the test.** NBCS 2026 names it: **IS 12458:2019**. **The certificate vacuum is closed.**
- Part F says “should” — **the “shall” lives in your State bye-law and your fire NOC desk.** NBC 2016-based bye-laws stay in force until amended.
- The physics is unchanged: an unsealed opening turns a fire-rated wall into a **chimney**.
- India loses **one life to electrical fire every 26 minutes**. The inquiry asks one question: **who specified the seal, and was it tested?**

FM-71 mortar seal — cable tray through shear wall

FB-250 barrier — data-hall wall penetration

EC 43 coated cable bundle — after fire test

3 THE RANGE — EVERY OPENING ON YOUR DRAWING, ONE TESTED SYSTEM

The opening on your drawing	The system	Seal · rating	What you get
Load-bearing floor & wall openings	**FM-71 firestop mortar**	**75 mm · 2 hours**	The **workhorse seal** — strong, tested, economical
Cable routes opened again and again	**FM-71 + FB-250 composite**	**100 mm · 2 hours**	**Re-enter** for new cables **without breaking the rating**
Occupied buildings · data halls · retrofit	**FB-250 barrier system**	**100 mm · 2 hours**	**Fast, clean, dry** — no wet work near live equipment
The cables passing through the seal	**FIREX EC 43 — flame-spread coat**	**beyond Part F · IEC 60332**	**One foot of coating on every penetration, included free:** fire cannot travel the cables through your seal
Critical circuits that must survive a fire	**FIREX EC 43 Survival — full length**	**beyond Part F · 240 min · IEC 60331**	Optional upgrade — fire-pump, alarm and trip circuits **stay alive 240 minutes at 750 °C**
Thin panel wiring — the first fuel in every panel	**FIREX EC 7034 first-coat**	**beyond Part F**	**Coated before it can catch. Rodents will not chew it.**

4 WHY STANVAC — FOUR REASONS, EACH SUFFICIENT ON ITS OWN

- **NBCS specifies ONLY IS 12458:2019. It does NOT specify imported FM, UL or ASTM.** The CBRI report is to the only specified standard — read on sight, **no lost weeks before occupancy**. Any other certificate needs the fire authority’s separate approval.
- **One accountable partner.** Survey, spec paragraph, drawings, method statements, trained applicators — **one name answers for it**.
- **More than the mandate.** Fire crosses by **two routes** — through the opening, and along the cable. Imported mortar closes only the first. Stanvac closes both: **2 hours at the wall** + **zero flame spread along the cable**, spread-stop tested to **4 hours (240 min)**, one-foot coat included free. **No barrier-only brand closes the second.**

WHY PAY MORE FOR WHAT NBCS DOES NOT SPECIFY?

The imported seal costs more — and its FM / UL certificate is not specified in NBCS 2026. Stanvac is certified to **IS 12458:2019**, the one standard NBCS specifies — at a **lower price**. **Lower price, specified certificate. Higher price, unspecified certificate. The choice decides itself.**

5 THE STANDARD — NBCS SPECIFIES IS 12458:2019. CBRI TESTS TO IT.

- **CBRI is CSIR** — the Government of India’s national building-fire laboratory. FIREX systems are CBRI-tested.
- An IS-tested system **matches the code as written**.

The method is Indian. The laboratory is national. The certificate is the one your NOC desk reads — as-is.

CBRI fire test in progress — furnace, specimen wall

Stanvac plant, Gurugram — manufacturing line

PCO — Panels · Cables · Openings · one survey · one specification · one accountable partner

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