GOVERNMENT OF INDIA

BUREAU OF INDIAN STANDARDS

DEPARTMENT OF CONSUMER AFFAIRS · GOVERNMENT OF INDIA

NBCS 2026 · FIRE & LIFE SAFETY

SP 7:2026 | Part F | Established 30 April 2026

National Building Construction Standards 2026 · replaces NBC 2016



MULTI-STOREY BUILDINGS.

SEAL FIRE PATHS. PROTECT CRITICAL CIRCUITS.

Government guidance.
Stanvac technology. Your gain.

9 APPLICATIONS / WALLS · SHAFTS · CABLES · PUMPS · LIFTS · ALARMS

01 CABLE OPENINGS THROUGH WALLS



An open cable gap weakens the fire-rated wall.

NBCS 2026 · PART F · 3.5.4.4 · IS 12458:2019

Recommends **120-minute minimum** firestopping for applicable cable/conduit openings.

STANVAC SOLUTION

FM 71 + FB250 HYBRID COMBO

Combines **mortar strength + mineral-wool boards** for load-bearing safety and easier cable retrofitting, with the specified supports.

YOUR GAIN

Contain fire at the opening. Keep cable changes manageable.

Match the tested assembly. The clause excludes low-voltage services shafts; confirm the exact application with the fire designer.

02 FLOOR + ELECTRICAL-SHAFT OPENINGS



An open shaft can carry fire from floor to floor.

NBCS 2026 · PART F · 3.5.5.1

Recommends floor-by-floor distribution-shaft seals matching the floor's fire rating.

STANVAC SOLUTION

FM 71 + FB250 HYBRID COMBO

Use the matching **2-hour tested hybrid assembly** where suitable. The mortar-and-board combination allows planned cable re-entry.

YOUR GAIN

Preserve floor separation. Simplify future cable additions.

A 2-hour test does not prove a higher rating. Match the floor, services, opening and seal detail; restore after changes.

03 SUBSTATION + LT-ROOM OPENINGS



A protected electrical room still needs sealed cable entries.

NBCS 2026 · PART F · 3.5.5.3 + 3.5.5.3.2

Recommends **120-minute separation** for specified electrical rooms and indoor dry-type substations.

STANVAC SOLUTION

FM 71 + FB250 HYBRID COMBO

Seal suitable cable penetrations using the documented hybrid system. Submit the matching **IS 12458** report and installation detail.

YOUR GAIN

Limit spread from the electrical room into occupied areas.

Penetration seals complement the rated enclosure. Retain fire doors, required ventilation and suppression; do not obstruct access.

04 FIRE SPREAD ALONG CABLE ROUTES



A cable route can carry fire beyond the first room.

NBCS 2026 · PART F · 3.5.5.1

Prefers flame-retardant wiring and cabling, with the specified routing and segregation.

STANVAC SOLUTION

EC 43 GENERAL

Additional protection for suitable existing cable sheaths. Reported **240-minute IEC 60332-3** flame-spread performance at **1.6 mm**.

YOUR GAIN

Limit flame travel through service routes.

NBCS does not prescribe this coating. Retain specified cables and conduits. Flame-spread control is separate from circuit survival.

05 FIRE-PUMP POWER FEEDS



A fire pump cannot help when its power feed fails.

NBCS 2026 · PART F · 3.5.5.2(a)

Recommends reliable emergency power and protected supply routes for fire pumps.

STANVAC SOLUTION

EC 43 SURVIVAL

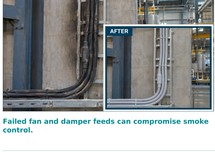
Propose full-route treatment on an accepted cable system. Reported **240 min at 750°C**, IEC 60331-21; **180 min at 950°C**, IS 17505-1.

YOUR GAIN

Help firefighting circuits remain available during fire.

Obtain design acceptance for the complete system. Coating is not an automatic substitute for specified fire-survival cables, backup supply or redundancy.

06 SMOKE-CONTROL + PRESSURISATION FEEDS



Failed fan and damper feeds can compromise smoke control.

NBCS 2026 · PART F · 3.5.5.2(b)

Includes pressurisation, smoke venting, dampers and actuators in emergency-power planning.

STANVAC SOLUTION

EC 43 SURVIVAL

Protect compatible fixed power and control cable routes to the accepted specification. Include connections, supports and inaccessible route sections in the survey.

YOUR GAIN

Support the circuits needed to manage smoke.

Preserve fan, damper and control operation. Match the required fire duty and test conditions; do not coat sensors or mechanisms.

07 FIREMAN'S LIFT + LIFT POWER FEEDS



Lift support depends on protected fixed power circuits.

NBCS 2026 · PART F · 3.5.5.2(c)

Includes fireman's lifts and other lifts in emergency-power planning.

STANVAC SOLUTION

EC 43 SURVIVAL

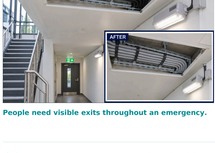
Assess the **fixed feeder cables** and accepted control routes for compatible full-length protection. Record cable type, coating build and required fire duty.

YOUR GAIN

Help maintain the fixed electrical supply to lift systems.

Obtain lift-OEM and fire-designer acceptance. Do not coat moving ropes or travelling cables without specific qualification. Ordinary lifts are not evacuation exits.

08 EXIT SIGNS + EMERGENCY LIGHTING



People need visible exits throughout an emergency.

NBCS 2026 · PART F · 3.5.5.2(d, e) + 3.5.6

Includes exit signs and emergency lighting in protected emergency-supply planning.

STANVAC SOLUTION

EC 43 SURVIVAL

Additional protection for accepted fixed cable routes serving exit signs, staircases and corridor lighting. Match the complete cable-and-coating system.

YOUR GAIN

Help keep escape-route lighting available.

Retain the prescribed standby power and lighting system. Check route segregation, electrical loading and installation details.

09 ALARMS + PA + EMERGENCY CONTROL FEEDS



Fire signals and emergency instructions need reliable circuits.

NBCS 2026 · PART F · 3.5.5.2(f, g, h, j)

Also covers alarms, PA, door holders and command-centre/security-room lighting.

STANVAC SOLUTION

EC 43 SURVIVAL

Survey compatible power/control cables for additional protection. Include alarm and PA feeds, door-control supply and command-centre lighting in the proposal.

YOUR GAIN

Support warning, communication and emergency control.

Retain required fail-safe operation. Do not coat detectors, sensing cables or contacts. Confirm system compatibility and complete-route performance.

THE TEST MUST MATCH THE PROTECTION YOU NEED.

180 MIN
EC 43 SURVIVAL
Circuit survival at 950°C
IS 17505-1
Match all required test conditions

240 MIN
EC 43 GENERAL
Flame-spread test
IEC 60332-3
1.6 mm test build

240 MIN
EC 43 SURVIVAL
Circuit survival at 750°C
IEC 60331-21
4-core × 70 mm² XLPE / 1.6 mm

2 HOURS
FM 71 + FB250 HYBRID COMBO
Penetration firestop
IS 12458
Match the tested assembly

Performance figures are reported by Stanvac for specific tested systems. Obtain the matching test report and installation detail. Flame-spread resistance, circuit survival and penetration fire resistance are different performances.

START WITH YOUR MOST VULNERABLE AREA.

Send cable-route, panel and opening photos.

Ask Stanvac for a site survey, system specification and offer.

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GOVERNMENT SOURCE BIS SP 7:2026, Part F: 3.5.4.4; 3.5.5.1-3; 3.5.6; List of Standards F(34). Official government-hosted text. Clause summaries are paraphrased.

PRODUCT DETAILS EC 43 GENERAL / SURVIVAL · FM 71 + FB250 HYBRID COMBO

NBCS provides national guidance; State/local rules and fire-authority conditions govern applicability. Verify occupancy, height, area and adopted edition. Product proposals require matching system evidence and project acceptance.

Selected sales applications, not a complete fire-safety checklist. Stanvac proposals do not imply government endorsement or whole-facility compliance. AI sector and application illustrations; "after" shows treatment, not a verified installation or fire-test result. Repair or replace defective cables before coating.