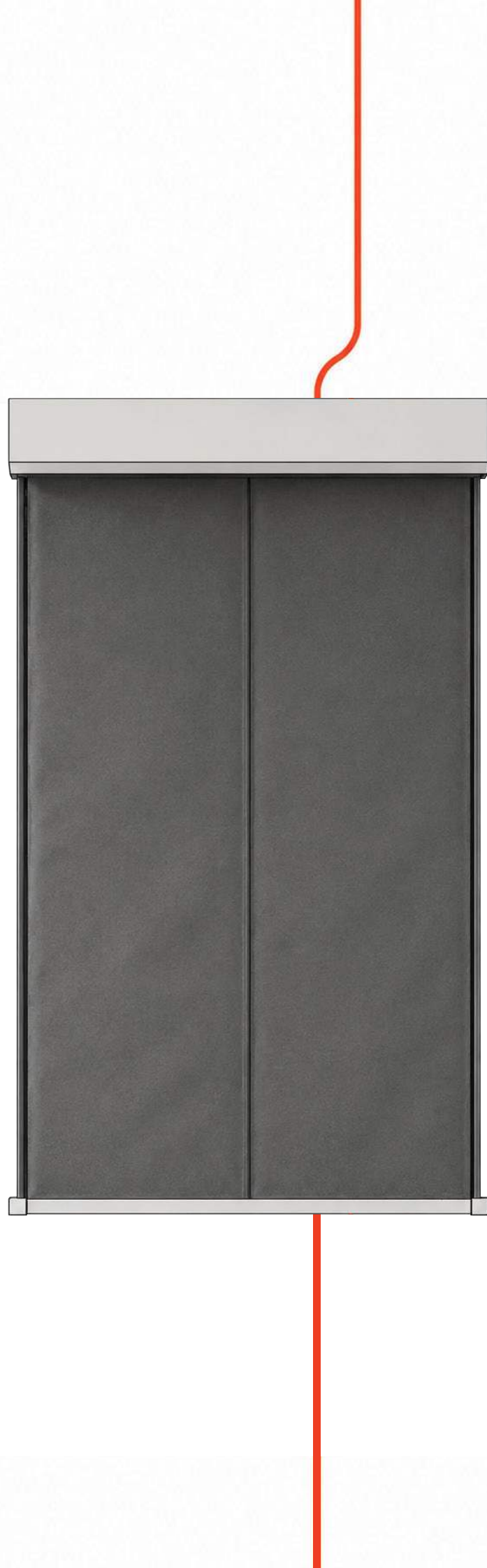




FIRE CURTAINS

**ENGINEERED
FOR LIFE SAFETY**





BÖLDT is a specialist company in the field of passive fire protection. The products include fire doors, fire curtains, glazed fire doors and glazed fire partitions. **BÖLDT** is a Division of Window Techs India Pvt. Ltd. which has a manufacturing experience of over 30 years, including 12 years for fire curtains. The projects list includes prestigious names like Central Secretariat, Google, Bharatmandapam & Yashobhoomi, Jewar International Airport and others.

The new integrated manufacturing facilities for **BÖLDT** at Jaipur covers an area of 111,000 sft. From design to manufacturing, all activities are in-house, allowing full control of quality over the entire manufacturing process. Our CE marked products ensure only products manufactured according to the latest factory process audits would reach the site.

Manufacturing Facility for BÖLDT Fire & Smoke Curtains

BÖLDT has best-in-class machinery to produce world-class products. Every component, from the steel head box to the final fabric stitch curtain is done in house in a dust free environment for better control over final quality. Some of the important equipment in use are:

- 1. Multi-Axis Punching Machine**
This machine is imported from Italy and offers accuracy of 0.05mm and can handle plate thickness up to 8 mm sheets.
- 2. Multi-Axis Bending Machine**
This machine is also imported from Italy and has an accuracy of $\pm 0.05^\circ$ and can bend plate up to 12mm thickness.
- 3. World's Longest Automatic Sewing Machine**
This made to order machine was also imported from Italy and can stitch a dual seam with stainless steel thread up to 25 metres in a single run. This machine is critical to make very large curtains with enough strength and structural integrity to hold its form and operate smoothly.

Where Fire Curtains are required as per The National Building Construction Standards 2026 (Part F - Fire and Life Safety)

Currently, as there is no BIS standard for fire curtains under the new NBCS, European (EN) norms are the applicable compliance standards for testing parameters such as radiation and insulation. According to NBCS, the fire-rated fabric must be tested and certified by a reputable third-party independent certification body for the following three performance types:

TYPE	REQUIRED PERFORMANCE
Type 1	Integrity (E) 120 min + Radiation (EW) 60 min + Smoke Control (Sa)
Type 2	Integrity (E) 120 min + Radiation (EW) 120 min + Smoke Control (Sa)
Type 3	Integrity (E) + Radiation (EW) 120 min + Insulation (EI) 60 min + Smoke Control (Sa)

Corresponding EN Standards:

EN 1634-1 Fire Resistance of Door and Shutter Assemblies

EN 1634-1 is the European standard that governs the fire resistance testing of door sets, shutter assemblies, and openable windows — including fire curtain systems. Under this standard, fire curtains are evaluated for their ability to maintain integrity and control the spread of fire and smoke across openings for defined periods.

EN 12101-1 Smoke and Heat Control Systems

EN 12101-1 is a multi-part European standard that defines the performance requirements for smoke and heat control systems in buildings. Curtains tested and certified to EN 12101 demonstrate measurable performance in real fire scenarios, supporting both life safety strategies and regulatory compliance.

EN 15269-11 Extended Application of Fire Resistance Test Results for Curtain Assemblies

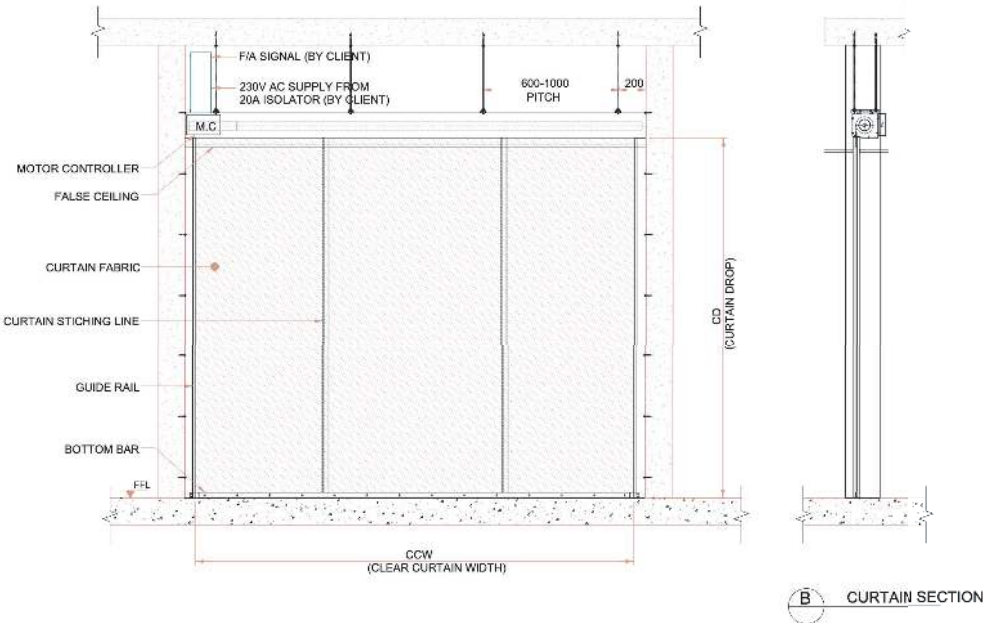
EN 15269-11 provides the framework for the extended application of fire test results specifically for flexible curtain assemblies in the real world. Rather than requiring every curtain configuration to be independently tested, this standard allows certified test data to be applied across a defined range of sizes, widths, and installation conditions.

EN 13501 Fire Classification of Construction Products

EN 13501 is the European classification standard that translates fire test results into clearly defined performance ratings for construction products and building elements. For fire curtains, this standard assigns classifications based on criteria such as integrity (E), radiation (W), and insulation (I) — providing a transparent and universally understood rating system. A fire curtain classified under EN 13501 gives building owners, consultants, and authorities having jurisdiction (AHJ) a clear indication of how the product will perform during a fire, for how long, and under what conditions. It forms the common language of fire safety specification across European and internationally aligned markets, including India under the NBCS framework.

Uses by Building Occupancy — Table 6 (Clause 4.5.3) as shared in the NBCS

BUILDING TYPE	RESTRICTION
Enclosed basement vehicle parking	Type 2 only, limited to driveways ≤ 9 m
Hospitals / nursing homes (with beds/sleeping patients)	Type 3 only
Buildings for custody/care of children, aged, incapable persons	Type 3 only
Mercantile buildings / department stores / markets	Type 2 only
Assembly buildings (with/without atriums)	Type 2 only
Business occupancy buildings	All types (B, combined with A, C, D)



BÖLDT PRODUCT RANGE

AUTOMATIC FIRE CURTAINS TESTED TO EN 1634-1



The key function of an electric motor held, gravity drop fire curtain is to remain concealed inside a compact head box attached to ceiling, until deployed through fire alarm or power loss. The curtain would descend under gravity at a controlled rate to form a fire-resistant barrier which is tested and certified for up to 240 minutes. The gravity fail-safe mechanism means the curtain will deploy in case of total power failure, with no battery backup or manual release required.

AUTOMATIC SMOKE CURTAINS TESTED TO EN 12101-1

Motorised smoke curtains are designed to contain and channelize smoke in the critical early stages of a fire. The objective is protect escape routes, maintain visibility and direct smoke towards extraction units. Smoke curtain also have gravity fail-safe deployment as standard.



ACCORDION FIRE CURTAINS

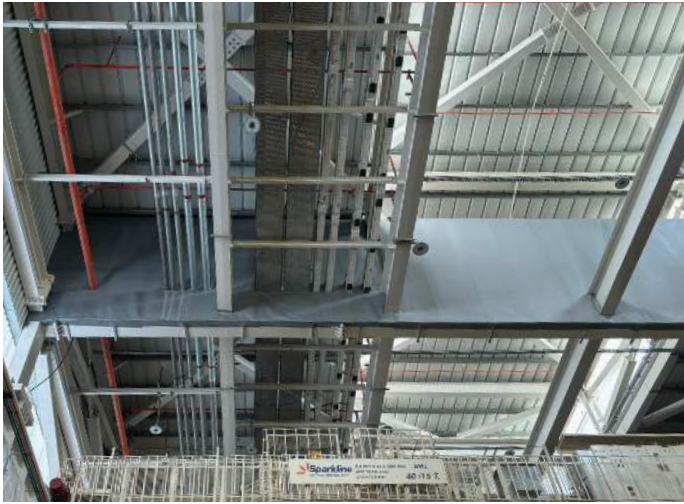
Places where a standard single-drop curtain cannot address the geometry of the opening like, wide spans with structural obstructions, column-interrupted facades, or complex atrium boundaries - the accordion configuration is the answer. Accordion fire curtains are manufactured in multiple folding panels that deploy laterally or vertically across irregular openings, sealing the full perimeter without gaps. Construction is similar with motorised, gravity fail-safe deployment, integrated with fire alarm and BMS systems.



EGRESS FIRE CURTAINS

Egress fire curtains are required for escape routes like doorways, corridors, and exit pathways, where the curtain must provide a fire barrier, while still allowing occupants to pass through safely during evacuation. The fabric is designed to deflect under human contact, permitting egress without loss of fire protection.

BÖLDT PRODUCT RANGE



FIXED FIRE CURTAINS

As is evident these are non-retractable fire-rated fabric barriers for openings where a fixed boundary is required. The specification are similar to automatic fire curtains except that motorised cassette is not required.

SMOKE CURTAIN

Model	Max Width (M)	Max Drop (M)	Classification	Test Standard
WSC-01	6	25	D120	EN 12101-1
WSC-02	UNLIMITED	25	D120	EN 12101-1
WSC-03	UNLIMITED	UNLIMITED	D120	EN 12101-1

FIRE CURTAIN

Model	Max Width (M)	Max Drop (M)	FIRE RESISTANCE (MINUTES)		Test Standard
			Integrity (E)	Radiation Control (EW)	
WFC-01	6	25	240	60	EN 1634-1
WFC-02	UNLIMITED	25	240	60	EN 1634-1
WFC-03	UNLIMITED	UNLIMITED	240	60	EN 1634-1

FIRE AND SMOKE CURTAINS COMPONENTS

Head Box



Guide Rail



Bottom Bar



Fabric



Material: - Galvanized Steel
Finish: - G.I (or) Powder Coated

Material: Glass fabric with reinforced ss wire
Finish : Aluminium pigmented PU Coating



JAIPUR MANUFACTURING FACILITY

AUTOMATED PRODUCTION

Our Italian-imported CNC punching, bending, and sewing machinery ensures every curtain assembly is formed, stitched, and finished to exact specification—eliminating manual variance across every order, large or small.

TIMELINE RELIABILITY

Fully integrated in-house production means no dependency on third-party fabricators or component suppliers. From order confirmation to dispatch, every stage is controlled within our own facility, keeping your project on schedule.

NATIONAL SERVICE

BÖLDT team and channel partners operates across India, supporting projects from initial specification through to installation, commissioning, and after-sales service. Whether a single curtain or a large-scale multi-zone installation, our team provides responsive, direct coordination at every stage.

CERTIFIED PERFORMANCE

Every Window Techs (BÖLDT) fire and smoke curtain is tested and certified to EN 1634-1, EN 12101-1, and EN 15269-11 by European notified bodies, verified by Efectis and TÜV SÜD. Performance is documented, traceable and independently verified.

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