SAMAN PORTABLE

TECHNICAL SPECIFICATION | MATERIALS | SIZES | BUDGETARY PRICES

Fire-Rated Porta Cabin

Comprehensive product specification for procurement, design coordination and quotation review

Product overview

Fire-resilient porta cabin based on a heavy MS frame and specified around certified assemblies: mineral-wool sandwich panels or linings, protected openings, tested fire doors where required, penetration fire-stopping and documented material certificates. The required fire-resistance period and reaction-to-fire criteria must be stated by the project and supported by evidence for the exact wall, roof, door, joint and penetration system manufactured.

REFERENCE CONFIGURATION
20x10x8.5 ft

COST ESTIMATION INPUT
INR 1,550 / sq.ft.

PUBLISHED SIZE OPTIONS
6 workbook-controlled configurations

SPECIFICATION PROFILE
19 product-specific + 11 platform-common lines

TYPICAL SELECTION CONTEXTS

- Projects with defined fire-performance requirements
- Electrical, control or service rooms subject to project fire strategy
- Industrial and infrastructure support spaces
- Locations requiring certified non-combustible panel systems

Costing status: Planning estimate: tested systems required

Official product page
Scan or open the link for enquiries and current web content.
Open product page

Important

Document control: This PDF is a product specification and budgetary selection guide generated from the controlled technical workbook. It does not replace the approved project drawing, structural design, bill of materials, performance certificate or final commercial quotation.

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Bengaluru Manufacturing Unit
I, Sy No 34/2, near India Oil petrol pump, Gopasandra, Bengaluru, Karnataka 560099
+91 88616 22859 | +91 80886 85440 | sales@samanportable.com

Greater Noida Manufacturing Unit
Khata No 226, Vill-Jalpura, Bisrakh Rd, Jalpura, Dadri, Greater Noida, Uttar Pradesh 201308
+91 8796039938 | +91 9708989937 | ncr@samanportable.com

Specification overview

Fire-resilient porta cabin based on a heavy MS frame and specified around certified assemblies: mineral-wool sandwich panels or linings, protected openings, tested fire doors where required, penetration fire-stopping and documented material certificates. The required fire-resistance period and reaction-to-fire criteria must be stated by the project and supported by evidence for the exact wall, roof, door, joint and penetration system manufactured.

At-a-glance build profile

BOTTOM FRAME 150x75x5 mm MS C-channel reference; final by structural/fire protection design	**EXTERIOR WALLS** 75-100 mm mineral-wool sandwich panel; 0.5-0.8 mm pre-coated GI/GL facings typical supplier range
ROOF 75-100 mm mineral-wool roof panel or tested non-combustible roof build	**FLOOR BASE** 18-24 mm cement-bonded board or engineered steel/cementitious deck
WALL INSULATION 75-100 mm stone/mineral wool; A1-class product where the project specifies this level	**ROOF INSULATION** 75-100 mm stone/mineral wool or certified mineral-wool roof core
MAIN DOOR / SERVICE DOOR Rated door set with certified leaf/frame/hardware, self-closer and seals as required	**LAYOUT / CONFIGURATION** Compartment boundaries, exits, detectors/extinguishers/interfaces and signage to project fire strategy

Selection and scope control

CHOOSE THIS PRODUCT WHEN

- Projects with defined fire-performance requirements
- Electrical, control or service rooms subject to project fire strategy
- Industrial and infrastructure support spaces
- Locations requiring certified non-combustible panel systems

CONFIRM BEFORE ORDER

- Required fire-resistance period and test method
- Panel, lining and insulation certificates
- Fire-door and opening schedule
- Penetration seals, joints and service fire-stopping

How to use this PDF

- Use the reference specification to compare quotations line by line, not only by total price.
- Freeze product-specific options in the approved drawing, bill of materials and quotation before manufacture.
- Verify project-controlled performance claims against the exact selected assembly, certificates and test evidence.
- Treat published prices as workbook-controlled budget estimates; final scope, taxes, transport and site conditions govern the order value.

Scope boundaries

Included in this technical document: structural framework, enclosure, insulation, floor, openings, electrical and services baseline, six published size options, budgetary price schedule, adjustment rules, project coordination, QA and FAQs.
Not automatically included in the budget: interior fit-out, optional add-ons, transport and installation, foundations, and project-specific engineering or testing unless the quotation states otherwise.

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Technical specification: Steel Structure

The table preserves the controlled workbook specification. "Product-specific" rows define this product variant; "platform-common" rows are shared controls that still require confirmation in the approved project documents.

Component / scope	Baseline specification	Detailed design and coordination notes
Bottom frame Product-Specific	150x75x5 mm MS C-channel reference; final by structural/fire protection design	Fire-resilient certified-system build - The chassis uses a heavy MS reference profile. Where structural fire protection is required, coating/encasement and protected connection details are coordinated with the tested system and project fire strategy.
Bottom stiffeners Product-Specific	100x50x3 mm channels/RHS and engineered cross-members	Fire-resilient certified-system build - Secondary steel supports non-combustible floor construction and limits local deformation that could open fire-stopping joints. Final spacing follows loads and tested lining/panel support requirements.
Floor frame Product-Specific	80x40x3 mm / engineered steel grid + 18-24 mm cement-bonded board	Fire-resilient certified-system build - Floor structure avoids combustible board as the default. Any applied finish, adhesive or coating must be compatible with the required fire-performance documentation.
Top frame Product-Specific	80x40x3 mm RHS reference with protected connection zones	Fire-resilient certified-system build - Top frame supports tested wall/ceiling junction details. Fire-resistant linings must continue through or around connection zones according to the certified system.
Roof stiffeners Product-Specific	60x40x2.5-3 mm secondary steel reference	Fire-resilient certified-system build - Roof frame supports the selected mineral-wool/non-combustible roof build and maintains the joint/fastener spacing required by the approved panel or lining system.
Corner posts / walls Product-Specific	60x60x3 mm SHS reference with reinforced rated openings	Fire-resilient certified-system build - Wall framing is detailed so fire doors, service penetrations and rated panel joints are fully supported without ad-hoc site cutting.
Lifting / handling Platform Common	Engineered lifting / support points	Provide engineered lifting or handling points and support locations for each transportable module; move the completed module only to the approved lifting, support and transport drawing.
Welding & fabrication Platform Common	Welded and/or bolted connections to approved shop drawings	Fabricate structural-steel connections by qualified welding and/or bolting to approved shop drawings; deburr safe edges, inspect dimensions, protect cut edges and close panels only after frame inspection.

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Technical specification: Walls, Roof, Floor & Insulation

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Component / scope	Baseline specification	Detailed design and coordination notes
Exterior walls Product-Specific	75-100 mm mineral-wool sandwich panel; 0.5-0.8 mm pre-coated GI/GL facings typical supplier range	Fire-resilient certified-system build - Use a panel assembly with the project-required reaction-to-fire/fire-resistance evidence. ROCKWOOL notes stone-wool sandwich-panel cores can support enhanced fire performance, but the completed wall rating belongs to the tested assembly - not the insulation alone.
Roof Product-Specific	75-100 mm mineral-wool roof panel or tested non-combustible roof build	Fire-resilient certified-system build - Roof panel, joints, fasteners and penetrations must match the selected tested/certified system. No generic duration (for example 60/120 minutes) is claimed without the actual system certificate.
Interior walls Product-Specific	12.5 mm fire-grade gypsum / calcium-silicate / fibre-cement layers as certified system	Fire-resilient certified-system build - Layer count, board type, stud spacing, screw pattern, joints and sealants follow the certified wall/lining build-up. Substitutions require documented approval.
Ceiling Product-Specific	Certified fire-grade board or mineral-wool panel ceiling assembly	Fire-resilient certified-system build - Ceiling/roof underside is continuous at partitions and service penetrations where the fire strategy requires compartmentation. Access panels must be compatible with the required classification.
Floor base Product-Specific	18-24 mm cement-bonded board or engineered steel/cementitious deck	Fire-resilient certified-system build - Floor base is selected to reduce combustible content and to support the specified fire/smoke strategy; loading and span remain separately engineered.
Floor finish Product-Specific	Commercial resilient/epoxy system with documented fire characteristics where required	Fire-resilient certified-system build - Finish, adhesive and skirting are selected from documented systems. The fire strategy governs whether a finish is permitted over the non-combustible base.
Wall insulation Product-Specific	75-100 mm stone/mineral wool; A1-class product where the project specifies this level	Fire-resilient certified-system build - ROCKWOOL Safe n Silent Pro publishes Euroclass A1 reaction to fire and acoustic/thermal properties. Product data supports material selection; the wall fire-resistance period still requires an assembly test/classification.
Roof insulation Product-Specific	75-100 mm stone/mineral wool or certified mineral-wool roof core	Fire-resilient certified-system build - Maintain insulation continuity and protect joints. Required density/thickness is taken from the selected certified roof/panel system rather than assumed from a generic cabin standard.
Decorative / external finish Platform Common	Project-selected colour and compatible coating system	Final colour and coating system are project-selected; substrate preparation, compatibility, touch-up and exposure-category maintenance are confirmed in the approved finish schedule.
Fasteners & sealing Platform Common	Corrosion-compatible fasteners, EPDM / butyl / approved sealants	Use corrosion-compatible mechanical fasteners, EPDM/butyl or approved sealants and flashings at panel joints, corners, roof laps and penetrations; no unsealed field cuts are accepted.

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Technical specification: Doors, Windows, Electrical & Services

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Component / scope	Baseline specification	Detailed design and coordination notes
Main door / service door Product-Specific	Rated door set with certified leaf/frame/hardware, self-closer and seals as required	Fire-resilient certified-system build - The door rating must match the project fire strategy and be supported by the supplier/test certificate. Ordinary MS doors are not represented as fire-rated doors.
Windows / service opening Product-Specific	Fire-rated glazing system only where permitted and certified; otherwise omit glazing in rated barrier	Fire-resilient certified-system build - Standard aluminium windows with ordinary glass are not used in a required fire-resistance barrier unless a tested fire-rated glazing assembly is specifically approved.
Grills / mosquito mesh Platform Common	Grill / mosquito mesh / guard / louver as scheduled	Security grill, mosquito mesh, guard or louver is provided only where the approved opening schedule and intended use require it.
Electrical wiring Platform Common	1.5 / 2.5 / 4 sq.mm copper starting schedule; final by load	Concealed or protected copper wiring is typically 1.5 sq.mm for lighting, 2.5 sq.mm for sockets and 4 sq.mm for higher-load or AC circuits, subject to the final load schedule and approved electrical drawing.
Electrical protection Platform Common	Segregated protected circuits to approved electrical drawing	Provide a distribution board with MCB/RCCB protection, earthing and segregation of lighting, socket, wet-area and AC circuits according to the approved electrical drawing.
Electrical fittings Platform Common	LED lights, modular switches, 6A/16A sockets, fan / AC provision	LED lights, modular switches, 6A/16A sockets, fan points and AC provision are coordinated with the approved layout; final quantities and equipment loads are quotation-specific.
Ventilation / AC Product-Specific	HVAC/louver penetrations with tested dampers/fire-stopping where the fire strategy requires them	Fire-resilient certified-system build - Ventilation cannot bypass compartmentation. Dampers, collars, duct protection and access are selected as part of the tested or engineered fire strategy.
Plumbing / sanitary Product-Specific	Tested penetration seals for cables, pipes and conduits; plumbing only if included	Fire-resilient certified-system build - ROCKWOOL fire-stopping guidance emphasizes closing joints/openings that permit fire or smoke passage. Every service penetration is logged and sealed with a system appropriate to substrate and penetrant.
Layout / configuration Product-Specific	Compartment boundaries, exits, detectors/extinguishers/interfaces and signage to project fire strategy	Fire-resilient certified-system build - The product is specified as fire-rated only when the required wall/roof/door/penetration assemblies and certificates are identified. A generic cabin description must not promise a fire-resistance duration without evidence.
Painting / coating Platform Common	Substrate-appropriate corrosion protection and touch-up	Corrosion protection is matched to substrate and exposure: prepared MS receives the approved primer/topcoat system, while galvanized/coated steel receives compatible cut-edge and damage repair plus coating touch-up where specified.
Quality checks Platform Common	Pre-dispatch dimensional, enclosure, service and functional QA	Pre-dispatch QA covers dimensions, member/panel identification, connections, coating, roof drainage, weather sealing, doors, windows, electrical continuity and functional checks; specialist performance certificates are verified where the product requires them.
Warranty Platform Common	Final quotation governs warranty scope and exclusions	Warranty period and exclusions are confirmed only in the final quotation; relocation damage, misuse, site services, consumables and unapproved alterations remain outside the agreed scope unless explicitly included.

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Published sizes and budgetary pricing

The visible Cost Estimation Input control rate is INR 1,550 per sq.ft. The six published size prices below are the calculated workbook values. The costing status is: Planning estimate: tested systems required. Cabin Price excludes GST. Final Estimated Price includes 18% GST.

Code	Published size	Area (sq.ft.)	Adjusted rate per sq.ft.	Cabin price excl. GST	Final price incl. GST
SZ-01	10x10x8.5 ft	100	INR 1,782.5	INR 178,250	**INR 210,335**
SZ-02	20x8x8.5 ft	160	INR 1,705	INR 272,800	**INR 321,904**
SZ-03	20x10x8.5 ft	200	INR 1,550	INR 310,000	**INR 365,800**
SZ-04	20x12x8.5 ft	240	INR 1,488	INR 357,120	**INR 421,402**
SZ-05	40x10x8.5 ft	400	INR 1,472.5	INR 589,000	**INR 695,020**
SZ-06	40x12x8.5 ft	480	INR 1,457	INR 699,360	**INR 825,245**

Pricing notes

Transport and installation: Quoted separately for every published size.
Price control: Quantities, openings and services scale with the approved drawing while the product technical framework remains applicable.
Commercial control: The final written quotation, approved drawing and bill of materials govern the order.

Area-band adjustment rules

The workbook applies the following non-overlapping area bands to the product Cost Estimation Input control rate. These rules are shown for transparency and must be kept synchronized with the website calculator and quotation logic.

Area band	Rate adjustment	Multiplier
100-149 sq.ft.	15% above control rate	**1.15x**
150-199 sq.ft.	10% above control rate	**1.10x**
Exactly 200 sq.ft.	No adjustment	**1.00x**
201-300 sq.ft.	4% below control rate	**0.96x**
301-400 sq.ft.	5% below control rate	**0.95x**
401-500 sq.ft.	6% below control rate	**0.94x**
501-600 sq.ft.	7% below control rate	**0.93x**
601-700 sq.ft.	8% below control rate	**0.92x**
701-800 sq.ft.	9% below control rate	**0.91x**
801 sq.ft. and above	10% below control rate	**0.90x**

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Quotation scope and price controls

Use this page to reproduce the workbook calculation and compare quotations on an equivalent scope. A lower total is not directly comparable when materials, openings, insulation, services, logistics, testing or taxes differ.

Worked calculation - first published size

Calculation step	Workbook value	Control note
1. Cost Estimation Input	**INR 1,550**	Controlled 200 sq.ft. reference rate for this product.
2. Published size and area	**10x10x8.5 ft | 100 sq.ft.**	Area shown in the workbook size schedule.
3. Area-band multiplier	**1.15x**	Applied from the non-overlapping area-band table.
4. Adjusted rate	**INR 1,782.5**	Control rate multiplied by the applicable area-band factor.
5. Cabin price excl. GST	**INR 178,250**	Published area multiplied by the adjusted rate.
6. GST at 18%	**INR 32,085**	Added to the cabin price; rounded to the nearest INR in the schedule.
7. Final estimated price	**INR 210,335**	Workbook-published total including 18% GST.

BUDGET EXCLUSIONS

- Interior fit-out and furniture unless explicitly included.
- Optional add-ons and equipment not shown in the approved scope.
- Transport, offloading, positioning and installation unless quoted.
- Foundations, plinths, supports, anchors and external site utilities.
- Project-specific structural engineering, fire or acoustic tests, specialist certificates and third-party approvals unless quoted.

QUOTATION COMPARISON CHECKLIST

- Match the exact product, document revision, size and area.
- Compare section sizes, sheet or panel thicknesses, insulation and floor build-up.
- Compare doors, windows, grills, ventilation, electrical and sanitary quantities.
- Confirm coatings, finishes, accessories, testing and documentation.
- Separate GST, transport, offloading, installation, foundations and site utilities.
- Record delivery programme, warranty scope, exclusions and quotation validity.

Price disclaimer

These figures are workbook-controlled budget estimates for the published technical framework. Material selection, custom dimensions, quantity, project location, access, performance requirements, taxes and market conditions can change the final quotation.

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Project coordination and pre-dispatch quality

A technically complete quotation depends on the project information below. Freeze these inputs before final drawings and manufacture to reduce variations, field cutting and interface disputes.

INFORMATION REQUIRED FOR A FIRM QUOTATION

- Project location, climate or exposure condition and intended service life.
- Selected published size or custom dimensions, quantity and required delivery sequence.
- Intended use, occupancy, room layout, partitions and equipment or storage loads.
- Door, window, service opening, grill, louver and security schedule.
- Electrical supply, connected load, AC or ventilation equipment, socket and lighting schedule.
- Water, waste, sanitary, fire, acoustic or other specialist performance requirements where applicable.
- Transport route, site access, crane or unloading plan, lifting restrictions and final support locations.
- Finish colours, signage, furniture, accessories, warranty expectations and required documentation.

SITE READINESS BEFORE DELIVERY

- Prepared, level and adequately designed supports, plinth or foundations at the approved locations.
- Clear trailer and crane access, turning radius, overhead clearance and safe lifting area.
- Verified external electrical, earthing, water, waste and drainage connection points.
- Weatherproof interface details at module joints, supports, roof drainage and service penetrations.
- Permits, structural approval, fire or acoustic approvals and local authority requirements as applicable.
- Protected storage and handling plan for knock-down components or accessories delivered separately.

Pre-dispatch quality checks

Controlled QA baseline

Pre-dispatch QA covers dimensions, member/panel identification, connections, coating, roof drainage, weather sealing, doors, windows, electrical continuity and functional checks; specialist performance certificates are verified where the product requires them.

Handling, sealing and corrosion protection

Control	Requirement
Handling	Provide engineered lifting or handling points and support locations for each transportable module; move the completed module only to the approved lifting, support and transport drawing.
Joints and seals	Use corrosion-compatible mechanical fasteners, EPDM/butyl or approved sealants and flashings at panel joints, corners, roof laps and penetrations; no unsealed field cuts are accepted.
Coating and touch-up	Corrosion protection is matched to substrate and exposure: prepared MS receives the approved primer/topcoat system, while galvanized/coated steel receives compatible cut-edge and damage repair plus coating touch-up where specified.

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Handover, maintenance and warranty controls

The following controls support acceptance and continued service. They are recommendations for project coordination and should be aligned with the final quotation, approved drawings, site risk assessment and any specialist manufacturer instructions.

Recommended owner inspection points

- Keep roof drainage paths, gutters and outlets clear; investigate standing water or leakage promptly.
- Inspect flashings, panel joints, sealants, fasteners, door and window perimeters and service penetrations.
- Repair coating, cut-edge or galvanized-surface damage with the compatible approved system.
- Do not add large openings, equipment supports or unapproved penetrations without design review.
- After transport or relocation, inspect frame alignment, connections, floor, panels, seals, electricals and services before use.
- Arrange electrical testing and specialist fire, acoustic, plumbing or structural inspection where the project requires it.

Recommended handover pack

Handover item	Minimum coordination record
Approved configuration	Final general arrangement, opening schedule, service layout and selected finish schedule.
Technical schedule	Final bill of materials or approved technical schedule identifying product-specific selections and approved deviations.
Quality records	Pre-dispatch inspection or acceptance record, dimensional checks and functional checks included in the agreed scope.
Electrical records	Circuit schedule, protection details and test or commissioning records where included in the electrical scope.
Specialist evidence	Fire, acoustic, structural, corrosion or material certificates only where specifically required and quoted for the exact assembly.
Care and warranty	Handling, touch-up and maintenance guidance together with the final warranty period, scope, exclusions and claim process.

Inspection triggers

Review trigger	Recommended action
At delivery / after relocation	Check supports, frame alignment, panels, roof, openings, seals, finishes, service connections and visible transit damage before occupation.
After severe weather or leakage report	Inspect roof drainage, laps, penetrations, sealants and internal signs of moisture; rectify the cause before cosmetic repairs.
Periodic site review	Review fasteners, seals, coatings, doors, windows, floor condition, electrical protection and any site-made alterations; frequency depends on exposure and use.
Before modification or new equipment	Obtain design and services review before cutting openings, adding loads, mounting equipment or changing the approved support arrangement.

Warranty control

Warranty period and exclusions are confirmed only in the final quotation; relocation damage, misuse, site services, consumables and unapproved alterations remain outside the agreed scope unless explicitly included.

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Fire-Rated Porta Cabin FAQs

These answers summarize the controlled workbook and highlight the decisions that must be confirmed before manufacture. They are written for procurement teams, consultants, contractors and end users comparing portable-cabin quotations.

What is the intended use of the Fire-Rated Porta Cabin?

Fire-resilient porta cabin based on a heavy MS frame and specified around certified assemblies: mineral-wool sandwich panels or linings, protected openings, tested fire doors where required, penetration fire-stopping and documented material certificates. The required fire-resistance period and reaction-to-fire criteria must be stated by the project and supported by evidence for the exact wall, roof, door, joint and penetration system manufactured.

What structural base is specified?

The controlled baseline states: 150x75x5 mm MS C-channel reference; final by structural/fire protection design Final member sizing, spacing, connections and handling provisions remain subject to the approved drawing.

What wall, roof and insulation system is specified?

Exterior wall: 75-100 mm mineral-wool sandwich panel; 0.5-0.8 mm pre-coated GI/GL facings typical supplier range Roof: 75-100 mm mineral-wool roof panel or tested non-combustible roof build Wall insulation: 75-100 mm stone/mineral wool; A1-class product where the project specifies this level Roof insulation: 75-100 mm stone/mineral wool or certified mineral-wool roof core

What floor construction is specified?

Floor base: 18-24 mm cement-bonded board or engineered steel/cementitious deck Floor finish: Commercial resilient/epoxy system with documented fire characteristics where required Higher loads, wet use or specialist finishes must be stated in the approved scope.

How are electrical systems controlled?

Wiring baseline: 1.5 / 2.5 / 4 sq.mm copper starting schedule; final by load Protection baseline: Segregated protected circuits to approved electrical drawing Final circuit quantities, load schedule, earthing and equipment points follow the approved electrical drawing.

Can a numeric fire rating be claimed from panel thickness alone?

No. A rating applies to the tested complete assembly, including panels, framing, joints, doors, windows, penetrations and installation details.

What evidence must be approved?

Review the exact wall and roof system test evidence, door certificates, reaction-to-fire data, penetration fire-stop systems, material certificates and installation requirements.

Why is the price a planning estimate?

The selected tested systems, rating period, door set, fire stopping and certification package can materially change the bill of materials and must be confirmed in the project quotation.

Is plumbing or sanitary work included?

Workbook baseline: Tested penetration seals for cables, pipes and conduits; plumbing only if included Only the approved quotation and service schedule establish the final inclusion.

Which size and price should a buyer rely on?

Use the six published workbook configurations in this PDF as budgetary comparisons. The Cost Estimation Input rate is INR 1,550 per sq.ft.; the final quotation governs custom scope, taxes, transport and installation.

What is excluded unless specifically quoted?

Interior fit-out, optional add-ons, transport and installation, foundations and external utilities, and project-specific engineering, tests or certificates are excluded unless the written quotation includes them.

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Document control and contact

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Costing status	Planning estimate: tested systems required
Official product page	https://www.samanportable.com/product/porta-cabins/fire-rated-porta-cabin
Document owner	SAMAN Portable | SAMAN POS India Private Limited

Request a project quotation
South / Bengaluru: +91 88616 22859 | sales@samanportable.com
North / Greater Noida: +91 87960 39938 | ncr@samanportable.com
Open the SAMAN Portable contact page

Final control note

Final drawings, engineering calculations, bill of materials, performance certificates, warranty terms, logistics scope and commercial quotation supersede this selection guide for the specific order. Do not infer a fire, acoustic, structural, corrosion or thermal performance rating unless it is stated and supported for the exact supplied assembly.

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