

THERMAL CONTROL AND COMMERCIAL ACCESS

Insulated Rolling Steel Doors

Rolling-door security with a curtain designed to reduce heat transfer and air movement.

APPLICATION SUMMARY

Insulated rolling steel doors support conditioned warehouses, loading areas, service buildings, and commercial openings where security, compact storage, and improved environmental separation need to work together.

COMMON APPLICATIONS

- Conditioned warehouses and distribution facilities
- Loading and receiving areas
- Manufacturing and food-service support spaces
- Commercial garages and fleet buildings
- Openings where security and thermal separation are both priorities

DOCUMENT STATUS

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TECHNICAL REVIEW

Jovany technical approval pending

Use this guide to begin coordination. Final selections require an approved manufacturer/model and verified field dimensions.

01 **Standard features**

- Interlocking insulated curtain profile selected by approved product line
- Steel guides coordinated with the curtain thickness and mounting condition
- Counterbalance barrel assembly sized for the heavier insulated curtain
- Bottom bar and perimeter sealing strategy selected around the project
- Hood sized to protect the larger coiled curtain where specified
- Manual, chain-hoist, and motor-operated configurations subject to assembly size

OPERATION

Manual or chain hoist

Availability depends on opening size, curtain weight, selected counterbalance system, and safe operating force.

Motorized

Often preferred for larger or frequently used insulated doors and coordinated with controls, monitored safety devices, and available power.

Integrated controls

Key switches, push stations, remotes, access systems, interlocks, and other control methods are reviewed as part of the operator package.

02 **Available options**

- Insulated curtain profiles and available thermal-performance levels
- Guide, hood, and bottom weather seals
- High-cycle or heavy-duty operating packages where available
- Electric operators, control stations, safety devices, and access integration
- Powder-coated, painted, galvanized, or stainless finish options
- Vision, ventilation, and special-environment options when offered by the approved product line

03 **Materials and finishes**

CURTAIN

Interlocking double-wall or insulated metal slats, with core and exterior metal determined by the approved product line.

GUIDES AND BRACKETS

Steel components selected for the heavier curtain, opening size, mounting surface, exposure, and operating method.

FINISHES

Factory finish, powder coat, painted finish, galvanized steel, and selected stainless options are confirmed by product line.

INSULATION NOTE

Published R-value, U-factor, air leakage, and perimeter performance must come from the selected manufacturer/model. The curtain alone does not describe whole-opening performance.

04 Opening coordination

Typical width range	Medium through large commercial openings, within the limits of the selected insulated-door model.	Final clear-opening width and structural support must be verified before fabrication or ordering.
Typical height range	Full-height personnel, vehicle, loading, and equipment openings, subject to model limits.	Curtain height and insulated slat profile materially affect coil diameter and headroom.
Required headroom	Project-specific and commonly greater than a comparable non-insulated curtain.	Confirm coil diameter, hood, brackets, structure, utilities, and operator clearance.
Required sideroom	Project-specific on both sides, with additional space commonly required at the drive side.	Confirm guide depth, bracket plates, motor or chain-hoist location, and service access.
Backroom / projection	Limited primarily by the insulated coil, hood, guides, seals, and operator projection.	Coordinate with beams, sprinklers, conduit, lights, ductwork, and other overhead conflicts.

05 Basic component information

INSULATED CURTAIN

Interlocking double-wall or insulated slats form the moving barrier and require model-specific thermal and dimensional data.

BARREL

The steel pipe and counterbalance assembly supports the heavier curtain and helps control travel.

HOOD

A formed metal enclosure protects the larger coiled curtain and must be coordinated with available headroom.

OPERATOR

Chain-hoist or electric operation is selected around curtain weight, cycle needs, controls, safety, and available power.

GUIDES

Vertical assemblies retain the thicker curtain edges and transfer operational and wind forces to the supporting construction.

BRACKETS

Head plates support the barrel, counterbalance components, and operator at each side of the opening.

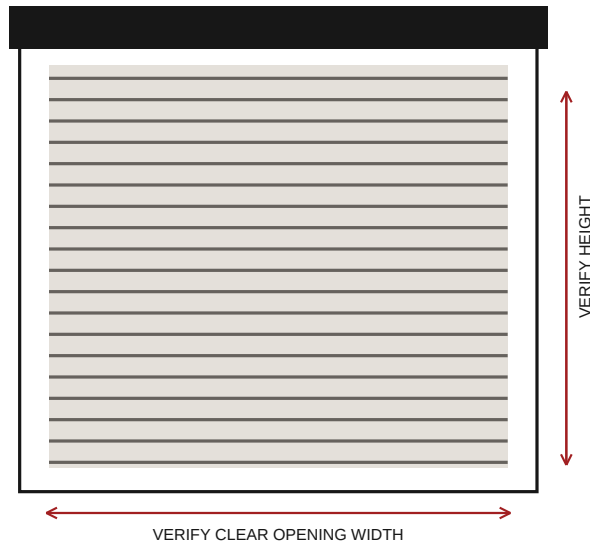
SEALS AND BOTTOM BAR

Perimeter and bottom details help manage drafts and air movement, but performance depends on the full installed assembly.

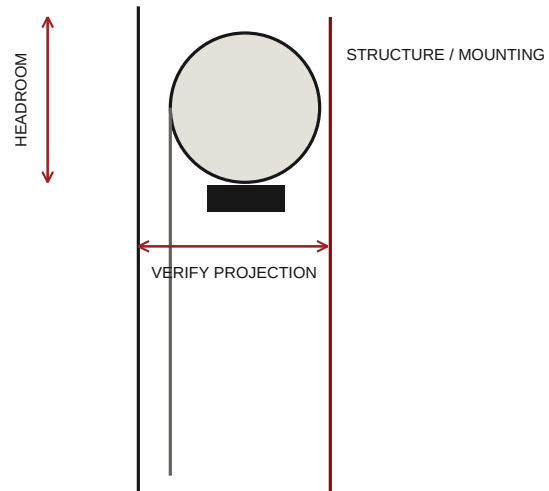
06 Diagrammatic coordination views

These diagrams communicate the locations that must be coordinated. They are not scaled shop drawings and contain no product-specific dimensions.

FRONT ELEVATION



SIDE SECTION



COORDINATE BEFORE SELECTION

- Clear opening width and height
- Wall construction and mounting face
- Headroom, sideroom, and drive-side access
- Structure, utilities, and overhead conflicts
- Operation, power, controls, and safety devices
- Exposure, finish, seals, and service access

Plan the opening with BPT.

Share the opening, intended use, site conditions, and available drawings. BPT can help define the next step before a quote is prepared.

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