

DSX 190 TB High Traffic Entrance Door Specification

The DSX 190 TB is an all-purpose, thermally broken commercial entrance door suitable for high-footfall and severe-duty applications across education, healthcare, retail, commercial and public buildings. The system features fully welded aluminium leaf construction and is available in single or double-leaf, single or double-acting configurations. Options include powered operation, multipoint locking, panic exit hardware, electronic access control, finger-guard pivot stiles and Document M-compliant thresholds. Independently tested to PAS 24, the DSX 190 TB combines strength, durability, accessibility and enhanced security in one versatile entrance system.

Performance

U-value	Subject to door configuration and glazing specification. Contact Novastruct for project-specific calculations.
Weather resistance	800 U (in accordance with BS 6375-1)
Category of duty	Medium, heavy and severe duty applications
Security	PAS 24:2022+A1:2024 enhanced security
Exit hardware	Panic exit hardware options to BS EN 1125 and BS EN 179
Maximum leaf weight	160 kg with heavy-duty floor pivot and springless concealed overhead closer 120 kg with concealed overhead closer pivot arrangement
Glazing/infill thickness	Up to 42 mm

Key features

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Maximum leaf height	3000 mm
Maximum leaf width, manual operation	1250 mm with concealed overhead closer pivot arrangement
Maximum leaf width, powered operation	1320 mm with heavy-duty floor pivot and springless concealed overhead closer
Maximum leaf size summary	Up to 1320 mm wide Up to 3000 mm high Maximum leaf area 3.3m² subject to operating method, closer arrangement, leaf weight and approved configuration
System depth	Leaf: 62.5mm Pivot style: 90mm
Leaf construction	Fully welded, square-cut aluminium leaf construction
Thermal break	Thermally broken profiles
Glazing	Up to 42mm dry glazed, insulating glass or infill units
Glazing method	Aluminium glazing beads with EPDM gaskets
Locking	Multipoint locking with panic and non-panic options
Electronic access control	✓
Finger protection	Anti-finger-trap pivot stiles as standard, with full-round and half-round options
Thresholds	Document M-compliant threshold options

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Powered operation	Suitable configurations available for use with powered operators
Compatible systems	Compatible with FSX 100 and FSX 110 curtain walling systems
Material	Aluminium profiles extruded from 6063-T6 and/or 6060-T66 alloy
Finishes	Wide range of colours and finishes
Warranty	Lifetime warranty on the welded construction (on application)

Configurations

Open in	✓
Open out	✓
Single acting	✓
Double acting	✓
Single leaf doorset	✓
Double leaf doorset	✓
Finger-guard pivot stile	✓ Standard
Full-round finger guard	✓
Half-round finger guard	✓ (open out panic door)
Powered/automatic swing operation	✓

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Multipoint locking	✓
Panic hardware	✓
Electronic access control	✓
Document M threshold options	✓

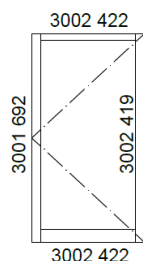
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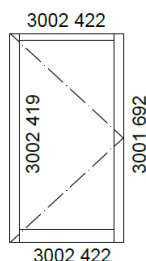
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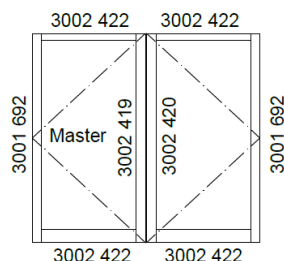
Profile configurations | round finger guard



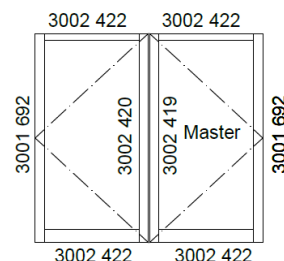
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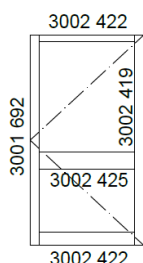
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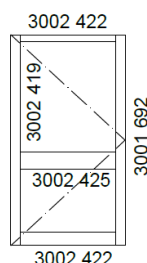
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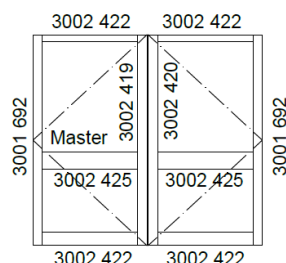
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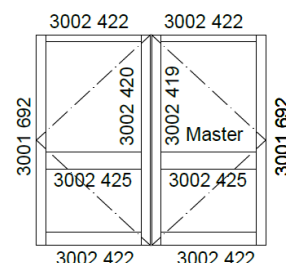
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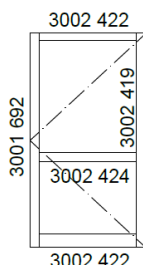
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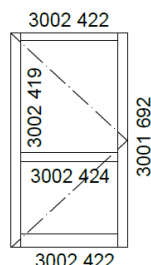
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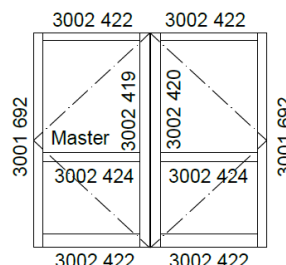
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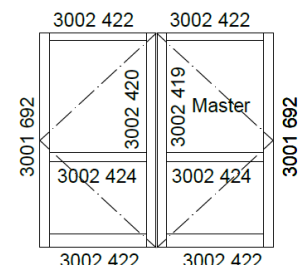
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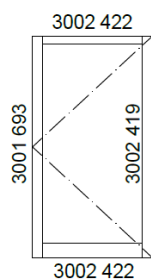
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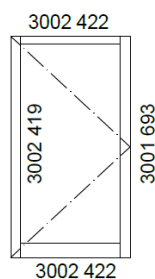
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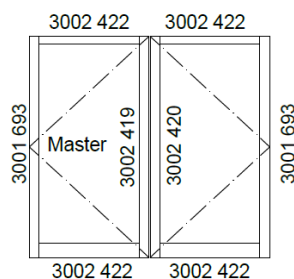
Profile configurations | flat finger guard



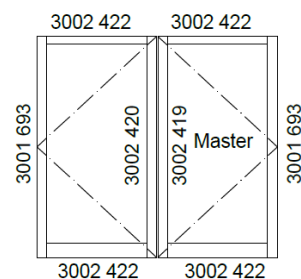
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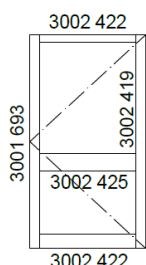
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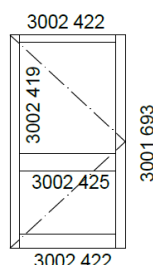
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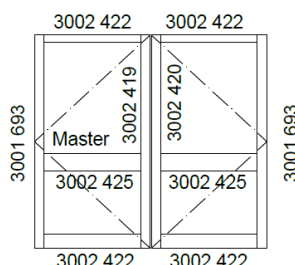
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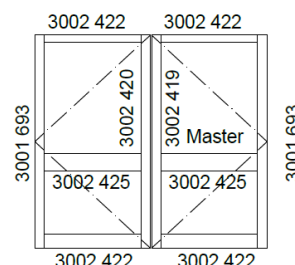
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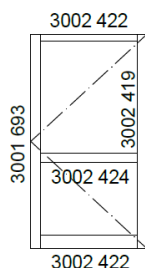
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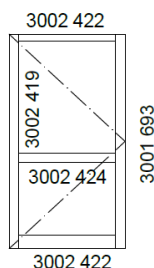
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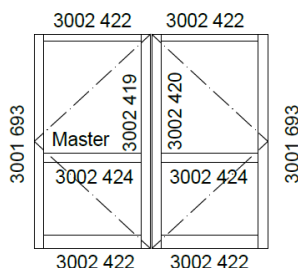
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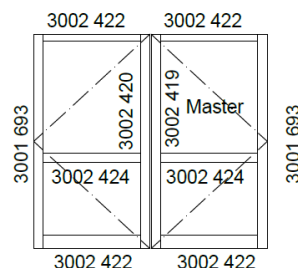
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