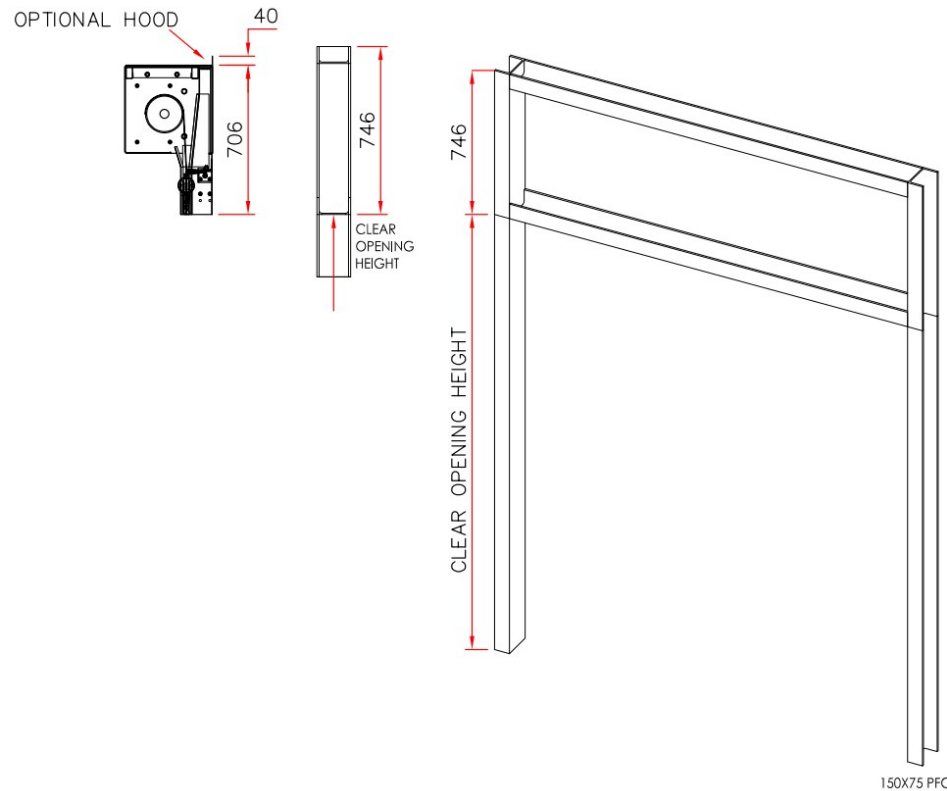


General layout drawing of minimum steelwork requirements



ECO Features and Appearance

Door sizes	Up to 5m wide x 5m high
Door applications	Distribution depots, Pharmaceutical production, Food manufacturing, Medical/Biotechnology production, Electronics/Semiconductor production, Aerospace/Automotive production and Chemical/Environmental Analysis industry, distribution, motor manufacture, anywhere.
Colour	<p>Light Grey Carmine Red Royal Blue</p>
Availability	UK Manufactured built to size
Safety further options	Light curtain, touch sensitive safety leading edge, safety photocells, movement sensors, presence sensors and laser detection.
Curtain options	.9g to 2.5Kg fabric weight, Clear vision panels, logo / images on curtain.
Hoods	Combined Barrel/motor hood in galv steel, Powder coat or stainless steel.
Door speeds	Standard single speed opening and closing speeds of approx. 0.66 m/s. Variable speed .95 up to 1.2m/s
Power Requirement	240 volt, single phase, 16 amp for variable speed OR 415 volt + neutral for single speed, conforming to EN 60309 within 1 meter of the motor side of the door at approx. 1.5m from floor level.

NBS REF:	L20:570
MODEL:	Speedor ECO, High Speed Door
Control Panel:	Digital Control Panel, state of the art, compliant to BS EN 12454. IP65 rated.
Door Motor:	Standard speed 0.66 meters per second <i>Optional :Variable speed inverter drive unit giving speeds .95m/s up to 1.2 meters per second</i>
Curtain fabric colours:	PVC coated, 900g lightweight fabric in Blue, Red or Grey <i>Optional: Other curtain colour and 500mm high, full width clear vision panel, full colour design/logo on fabric.</i>
Wind Bracing:	Steel bracing retained at ends by steel bearing, number Varies dependant on height.
Side frame:	Aluminium core with galvanised steel door guides. <i>Optional Powder Coated Finish</i>
Safety:	Light curtain, <i>Optional safe edge, Forward Warning Photocells, Audible Alarm, Optional Traffic Lights</i>
Seals:	Bottom Rubber Seal <i>(will not prevent potential water penetration without other drainage)</i>
Activators:	Induction Floor Loop, Radar sensors, Radio Operation with transmitter, Photocell, Press button, Pull Cord, Keypad
General:	Standard 12 month warranty on defective parts
Other Optional Items:	<i>Optional : Barrel and motor hood covers, Express manufacturing and delivery, Seaworthy packing.</i>

Speedor ECO is Hart Door Systems' mid range automatic door used for frequent use in high traffic situations and both internal and external use. Doors available up to 5M wide and 5M high give class 3 wind resistance.

Speedor's are UK designed and manufactured and backed by over 40 years' experience in high speed automatic energy saving doors. All Speedor models are designed for frequent use in high traffic situations, throughout their size range, and delivering reliable, long life, and low maintenance over many years. Speedor comply with all required British Standards and Health & Safety requirements.

Due to its automatic and fast operation, traffic flow and internal temperatures can be controlled more efficiently and cost effectively, potentially returning large payback by increased environmental control and reduced energy cost.

OPTIONS:

- Externally or internally facing up to 5M wide and 5M high
- Manufactured in England to ISO9001 and UKCA/CE marked
- State of the art Direct drives & Controls BSEN safety compliant
- Single or variable speed
- safety, operators and electricians
- Rugged, reliable and safe
- Rapid parts availability from stock
- extended warranties available

Size Availability:

All doors are made to measure to specific requirements. Maximum size available 5M wide and 5M high.

Fabric and Optional Vision Panel:

900g sq/M, flame retardant PVC fabric available in three colours as standard. Option 2.5Kg sq/M multilayer fabric.

Fabric is constructed from textile with PVC coating and high frequency welded as appropriate. Optional Vision Panel is available in 1mm thick clear PVC welded into the curtain.

Curtain braces are fixed horizontally within a contrasting PVC pocket which add to visibility of the door system in operation.

Standard Curtain Colour:



Bottom Rail Reset:

Optionally a break-away sacrificial nylon end fittings are fitted to the bottom rail allowing easy replacement and reset following impact

Standards:

Manufactured to ISO 9001:2015 standard. The machinery directive safety in use of power operated doors, BSEN 12453 & 12444 and safety devices for power operated doors BSEN 12978. Requirements for the safe installation and use BSEN 12625.

Wind Resistance

The **Speedor ECO** is designed for external or internal use. Steel horizontal wind braces supported by wheel bearing at each end support the door curtain to a tested wind class 3 when in the closed position.

Installation:

Hart Door Systems offer a complete manufacture, supply, install and commission services. All works will be completed to ISO 9001 which includes IEE regulations.

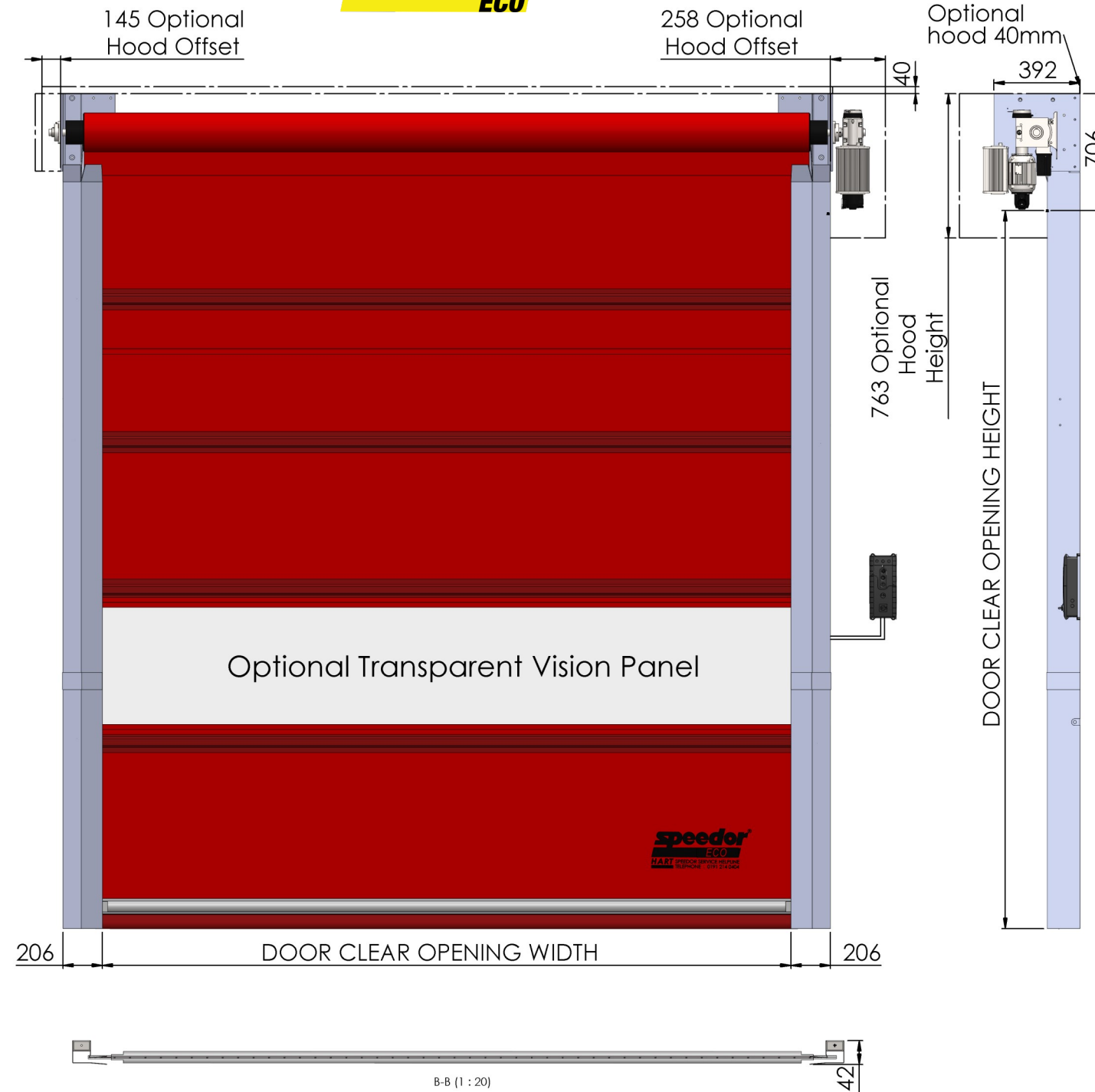
Metal Hoods Covers and Infill's options:

Barrel Hood, Motor Hood and Infills can be supplied as optional items depending on requirements. Available in stainless, galvanised or powder coated steel.



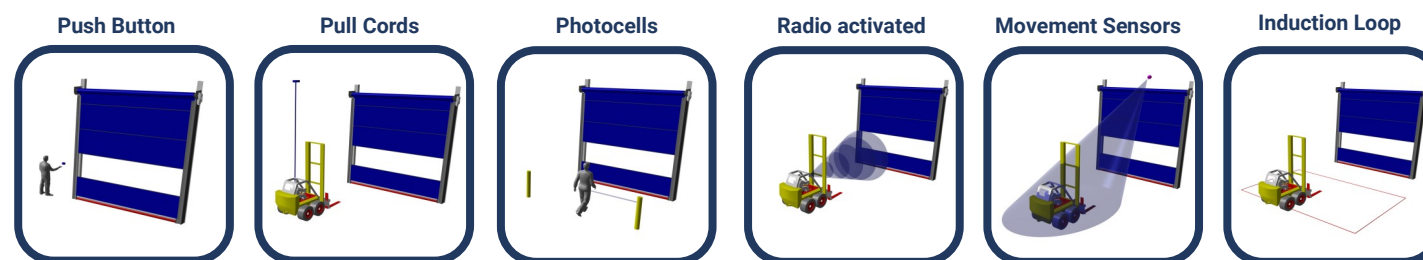
www.hartdoors.com

info@hartdoors.com



Door Activation :

System operators are used to open the door, Any of these operators can be used individually or in conjunction with others. They can be used to exclude pedestrians, be a security barrier or open for all. Please Note: Major benefits come with full automatic door by providing efficient throughput of vehicles and staff whilst giving major energy savings and environmental improvements.



Motor Drive & Speeds:

Speedor ECO All drives are GFA Safedrive® hollow shaft units providing as high standard precision worm drives incorporating a safety brake and digital limits. **Emergency operation** via winding handle. Optional hand chain some models

Power supply and speed options			
Power supply	Drive	Speed up	Speed down
3 phase + N. 415V,.	Single speed	0.66	0.66
Single phase 240V.	variable speed	0.95	0.66
Single phase 240V.	variable speed	1.2	0.66
Dependant on door size and specification			

Control panel:

Ref: TS971 state of the art 24V controls includes open, close and stop buttons, wireless receiver, two programmable relays and 24V power supply. Compatible to control options including loop cards, radio control, traffic lights, wireless safety edges, pull cords etc. IP65 enclosure certified to BS EN 12453, digital display fault indication, operations cycle counter and programable door maintenance indicator. Option for air lock controls.



Safety Systems and HSE requirements:

The standard door system includes a category D (exceeds E) safety light curtain within an IP67 enclosure which protects the required area of 2.5M in height from floor level to conform to BSEN 12453:2001 providing a contactless safety system.

Option: safe edge with radio wireless connection control to protect the entire opening if oversized transport with projecting booms, like diggers, use the opening.

Additional safety system options providing the ultimate in pedestrian safety via non-contact movement or movement and presence detection positioned on either side of the door.

Risk assessment is recommended for pedestrian use, evaluating volume, whether trained operatives or public using the door.

Further options include traffic or warning light and or Klaxons.



SAFETY LIGHT CURTAIN

Other options:

- Clear Vision Panel
- Barrel / Motor Covers
- Traffic Lights
- Battery back up
- Audible warnings
- Part open facility
- Low level hand chain
- Airlock facility with other doors
- IP65 Specifications
- Alarm if door left open after set amount of time.

