

Standard Steel Locker

Product Handbook



Product Handbook for **Standard Steel Lockers****Introduction & Handbook Content****Preface**

This handbook provides a guide to the popular standard range of steel lockers. Standard product configurations are described, as are non-standard but factory-fitted components. Sections H & I provide information and guidance for locker room design, layout and installation of these products.

Product Quality Assurance

These products also meet the requirements of the British Standard for Clothes Lockers BS 4680:1996 'Standard Duty' (refer to page B2 for information).

Our factories operate quality systems in accordance with the latest ISO 9001:2008, ISO 14001 and OHSAS 18001 standards and NEBOSH regulations.

**Antibacterial protection (ActiveCoat®)**

All our lockers and cupboards benefit from an antibacterial additive in the paint coating which inhibits the growth of bacteria and mould, making our products ideal for hygiene sensitive locations.

The finish is tested to ISO 22196 which measures a surface's antibacterial effectiveness. Whittan Group market this feature as ActiveCoat®. Antibacterial additives are also used in the injection moulded plastic components.



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'Standard' or 'General Duty' Locker

A locker, of predominantly steel components and construction, which is designated as suitable for use in well supervised dry-area environments, such as schools, colleges, hospitals, offices, retail outlets, manufacturing and industrial facilities. *Standard steel lockers fulfil this classification.*

Locker Unit

A fully enclosed vertical storage unit comprising one or more storage 'tiers' or compartments, each having its own fastening door.

Tiers

The variable number of enclosed vertical storage levels contained within the locker unit (may also be expressed as the number of doors or compartments within the locker).

Nest

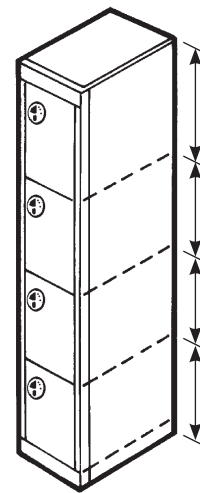
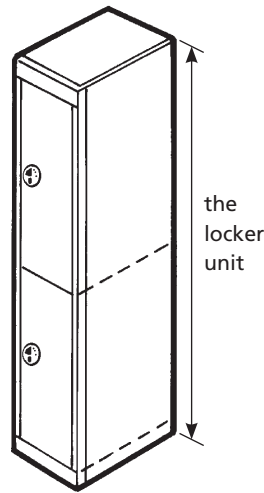
A series of lockers of the same overall dimensions, sharing common side panels, manufactured and supplied fitted together.

Locker nesting brings efficiencies in manufacture, delivery, installation and space utilisation. Maximum overall nested locker width = 900mm.

*Nests of 4 lockers are only available with 225mm locker widths.

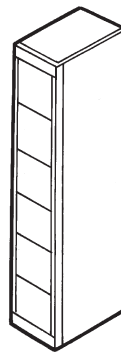
Locker Run

A series of nested lockers, connected together. May be a single depth run, sited against a wall, or a back to back run (as an 'island' block) opening onto two aisles.

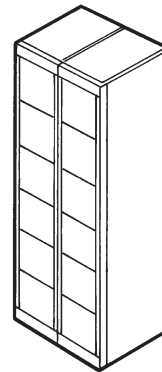


Example: 4-Tier locker
(also '4-door' or '4 compartment')

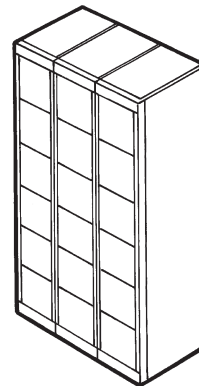
Locker Nesting Examples



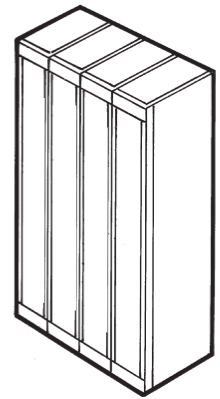
Nest of 1 16-tier locker (initial unit)



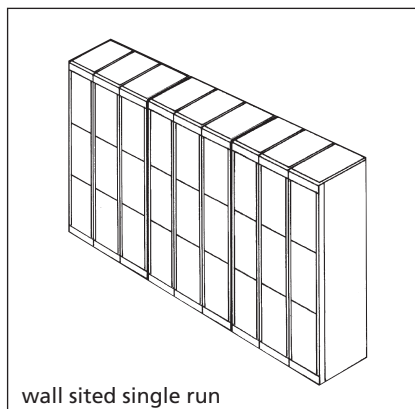
Nest of 2 6-tier lockers



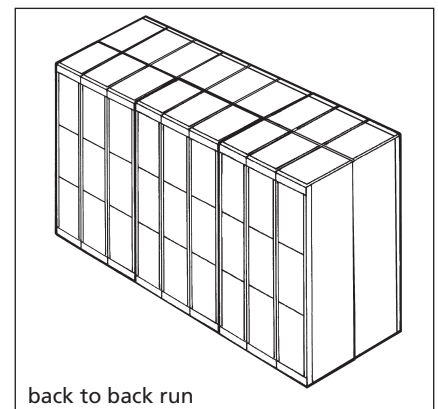
Nest of 3 6-tier lockers



Nest of 4 1-tier 225mm lockers



wall sited single run



back to back run

Product Handbook for **Standard Steel Lockers**Section B - **Standard Specification****Material & Assembly**

Component	Material	Assembly method
sides, backs & shelves	mild steel, cold rolled, 0.5mm gauge	riveted
door frame	mild steel, cold rolled, 1.0mm gauge	frame is formed & welded then riveted to the body
door panels	mild steel, cold rolled, 0.7mm gauge, with vertical reinforcement section, 0.6mm gauge	welded, with all-round strengthened edge (as a formed open box section), and vertical reinforcement

Finishing Process

To provide a clean and stable surface for maximum paint adhesion, assemblies are subject to a process of pre-treatment:

1. de-greasing
2. application of an a multi-oxide coating
3. rinse
4. rinse and seal

Colours are applied electro-statically as an epoxy-polyester powder coat, then baked to provide a high quality, durable finish.

The colour is applied to give an average minimum coating thickness of 25 microns.

Note: powder coated products conform to the requirements of BS 476: Part 7: 1997 CLASS 1, 'Fire tests on building materials and structures, method for classification of the surface spread of flame on products'.

(NB. excludes door handles and locks). In accordance with quality control procedures, pre-treatment and paint processes are regularly tested against recognised criteria (see below).

Colour range list		
Assembly	Colour	Reference
Locker body	Light Grey	RAL 7035
Locker doors	Light Grey	RAL 7035
	Blue	RAL 5002
	Red	RAL 3020
	Green	RAL 6001
	Yellow	RAL 1003

Colour Range

The colour range list shows the standard factory colours. Other colours are available. Refer to current sales literature and price lists for further information.

Durability of Finishes

Standard Lockers are designed and manufactured to meet the requirements of interior use, in environments which are predominantly dry and with low humidity. They are not suitable for exterior use, nor for interior use in locations which are predominantly damp or with a high humidity level - in changing areas adjacent to swimming pools or shower areas, for example.

Pre-treatment finishes and the paint coating are designed to give a high quality attractive finish to the finished locker product. This provides some protection against the general wear - accidental scratches and marking, slight accidental impact, for example - which could be reasonably expected in normal

daily use, and when the product is used responsibly and to the purpose for which it is intended.

To this end, pre-treatment and paint finishes are quality tested to ensure a consistent and reliable level of product protection.

Pre-treatment is tested to the criteria of American Standards Test Methods (ASTM B117) - 'Test panels for salt spray evaluation'.

This test requires coated steel panels to be scribed and exposed to salt spray for a minimum of 100 hours or until failure - when damage to the treated surface and exposure of base metal is apparent.

In most recent tests, panels scribed showed signs of blistering only after 144 hours, with no loss of adhesion.

Allowance is made for the possible effects of minor damage through misuse, and of corrosion caused by occasional exposure of the product to low incidence of localised damp and/or humidity.

Paint coating is tested to the criteria of BS 3900 'Paint Testing'.

Powder components are tested for DFT (Dry Film Thickness) against stoving (by a scribe with varying hardness).

Adhesion tests (with the surface broken by cross-hatching) are also conducted.

Testing is undertaken on a daily basis, to maintain the maximum (Class 2) pass standard.

Material & Assembly

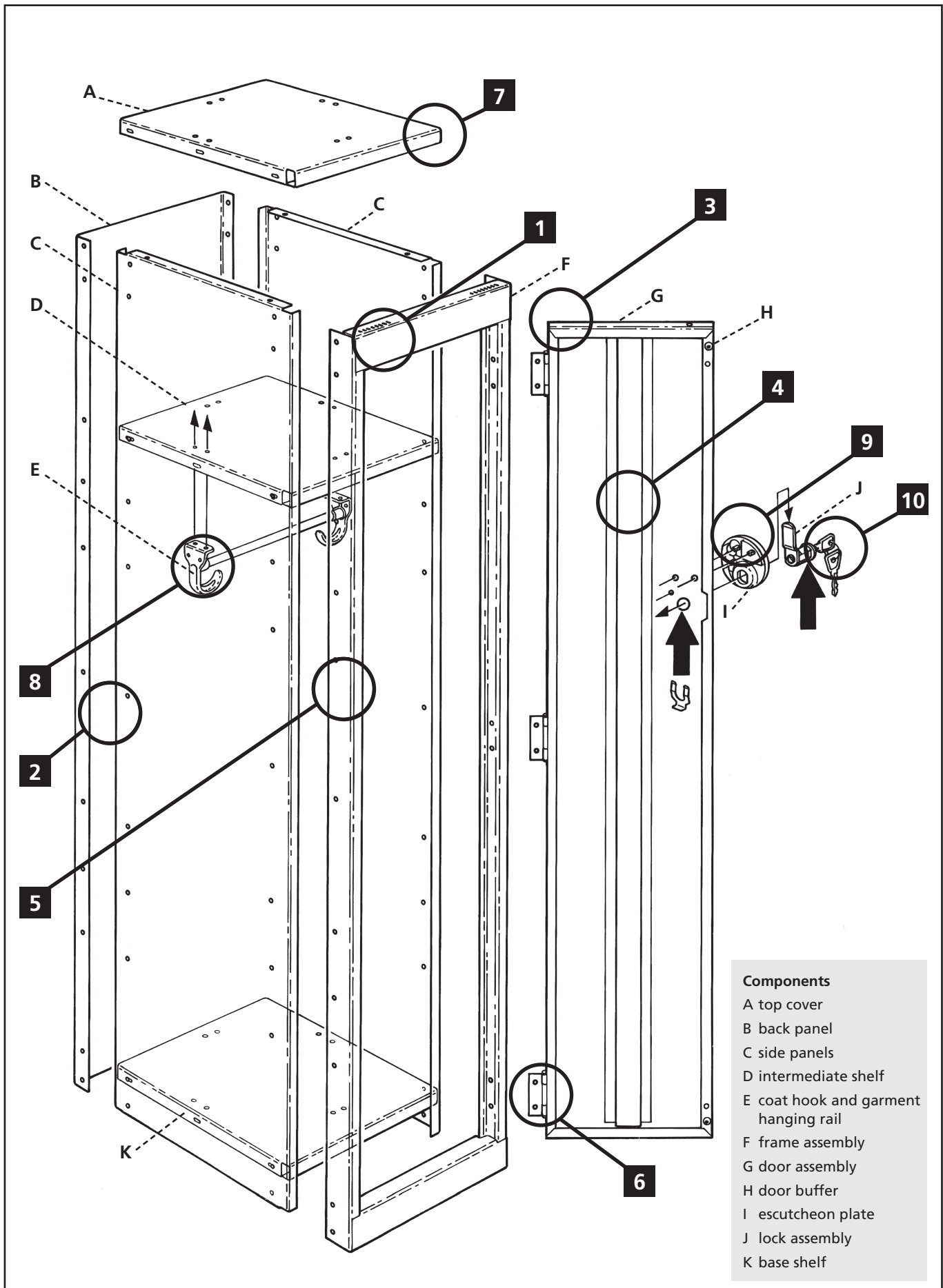
Metric Lockers (in standard configurations) have been tested and conform to the requirements of the British Standard for Clothes Lockers BS 4680:1996 'Standard Duty'.

The table below is extracted and edited from the BSI documents, setting out the specification of BS 4680:1996 and the conformity of 1800 Lockers to this Standard.

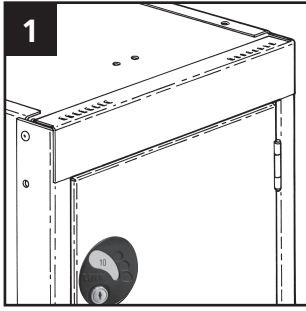
Component	Material	Assembly method
Dimensions	External plan dimensions for units and their reference sizes shall include the following size availability (in mm): Widths: 225/300/380/450 Depths: 300/380/450 Height, excluding legs, shall be in the region of 1700mm to 1850mm. Minimum internal clear height of any compartment shall be 200mm.	Available standard product range covers all sizes and required overall and minimum compartment heights
Material	Lockers shall be constructed of sheet steel. Thickness to be not less than 0.5mm to ensure adequate strength to the door, body, frame and shelf.	Within specification
Base or legs	Bases or legs, where fitted, shall be 150mm high.	Available and within specification
Seat	If a seat is specified it shall not reduce the stability of the unit.	Available and within specification
Locking	Doors shall be provided with a means of fastening. Note 1: For security purposes a lock may be required. For additional security a three-point locking mechanism should be used. Note 2: Coin or token operated and combination locks are available.	Available and within specification
Finish	The manufacturer shall state the finish applied. All finishes shall cover evenly all exposed surfaces, including cropped edges. Before any paint finish is applied all surfaces shall be free from grease, rust or other surface imperfections.	Within specification
Construction	All accessible sharp edges or projections likely to cause injury shall be removed. The gap between the door and the frame at the top and sides of all lockers shall be 2mm +/- 1mm. The closing edge of the door shall abut against a positive stop. Provision shall be made for fixing nests of lockers side to side or back to back, as required.	Within specification
Fittings	A garment hanging facility in a locker shall be a single or double hook or a hanger rail underside the shelf.	Available and within specification
Top	Units shall be supplied with a flat, or a sloping top (fitted in a tangential slope at least 1 in 3 downward from back to front).	Available and within specification
Ventilation	Louvres or ventilation slots shall be provided in the door or carcass to allow air to enter the locker.	Available as standard, with the additional option of ventilated doors
Performance Requirements	General: the locker has adequate strength and durability; the locker is able to withstand impact forces; the locker performs satisfactorily under continuous use.	
	Strength of shelves: when tested, deflection to be no greater than span/100.	Tested, within specification
	Deflection of clothes rail: when tested, deflection to be no greater than span/100.	Tested, within specification
	Impact test on doors: when tested, the local distortion from the impact, together with the overall distortion of the door, shall not result in the skin of the door deviating from its original position by more than 15mm.	Tested, within specification
	Paint flexibility and adhesion: when tested, the paint shall show no signs of cracking or loss of adhesion.	Tested, within specification
	Strength of pivoted doors: subject to testing.	Tested, within specification
	Wear on pivoted doors: subject to testing.	Tested, within specification
	Slam open/shut of pivoted doors: subject to testing.	Tested, within specification
Strength of carcass and under frame: subject to testing.	Tested, within specification	

Product Handbook for **Standard Steel Lockers**

Section C - **Standard Locker Components & Technical Features**

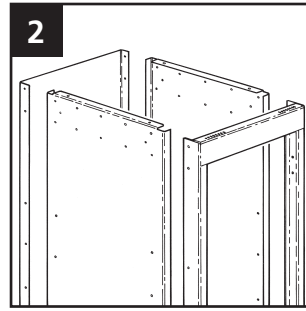


- Components**
- A top cover
 - B back panel
 - C side panels
 - D intermediate shelf
 - E coat hook and garment hanging rail
 - F frame assembly
 - G door assembly
 - H door buffer
 - I escutcheon plate
 - J lock assembly
 - K base shelf



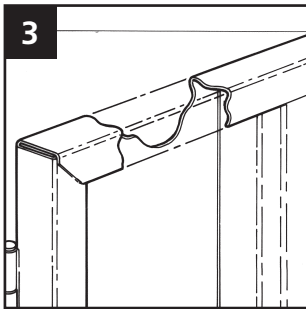
Ventilation

Slots to allow air to enter are located in the top and base of the frame.
Optional ventilated shelves and doors also available.



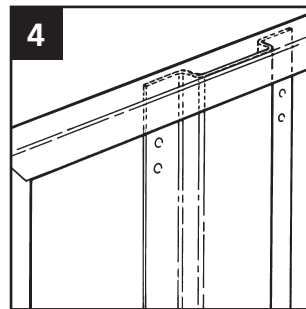
Main assembly

The front frame of the locker is welded throughout for strength and rigidity.
Sides, back panels and shelves are riveted together to create the locker compartments, with the frame overlapping and riveted in place.



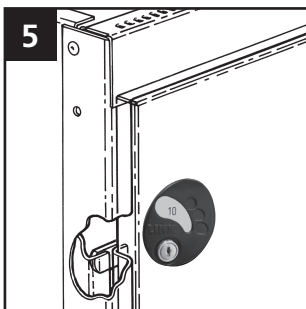
Door construction

Formed from sheet steel with an all-round reinforcing edge, as a formed open box section.



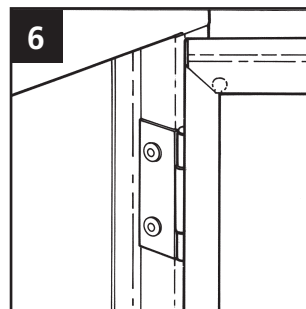
Door reinforcement

Doors are reinforced to their full height by a centrally located vertical channel section.
This serves to stiffen the door for protection against forced leverage and impact damage.



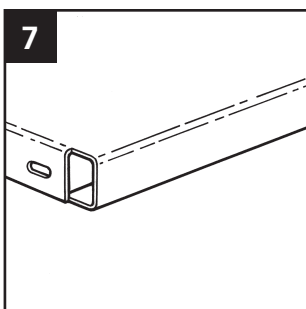
Cam protection

The cam is concealed by the locker frame, protecting against leverage in attempted forced entry.



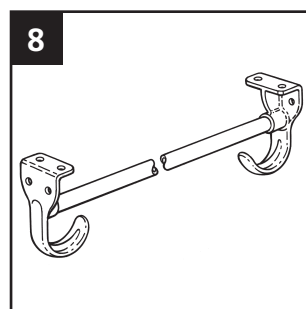
Door hinges

Steel hinges are welded to the door for added strength.
Rivets are used to attach each hinge to the frame, which allows for replacement of damaged doors.



Shelves

Shelves are formed for strength, with a safe front edge.
Maximum safe shelf load, with the load evenly distributed across the shelf, is 15kg for all standard shelves.



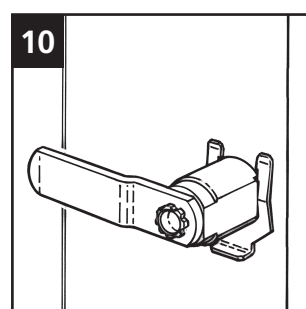
Garment hanging

Compartments of a suitable height are fitted with an integral steel coat rail with twin plastic hooks.
Note: refer to page F1 for details of the (non-standard) heavy-duty rail



Escutcheon plate

With recesses to allow for insertion of identification labelling, including compartment numbering.
Note: refer to page F1 for further details on escutcheon plate options & labelling



Standard Camlock

Key operated cam locks are the standard lock fitting, supplied with two keys.
Note: refer to section G for details of this lock and the range of alternative lock fittings available

Product Handbook for **Standard Steel Lockers**

Section D - **Standard Locker Configurations**

Single-Tier Locker

Overall Dimensions in mm			Nest Availability		
Height	Width	Depth	Initial	Nest 2	Nest 3
1800	225*	450	●	●	●
1800	300	300	●	●	●
1800	300	450	●	●	●
1800	380	450	●	●	-
1800	380	600	●	●	-
1800	450	450	●	●	-
1800	450	600	●	●	-

* Slimline Lockers, also available in nests of 4

1800x600x600mm lockers are also used for Police and Crew specification lockers. Refer to current sales literature and price lists for further information.

Internal fittings:

- fixed top shelf
- fixed garment hanging rail (except for 300mm deep)
- two coat hooks.

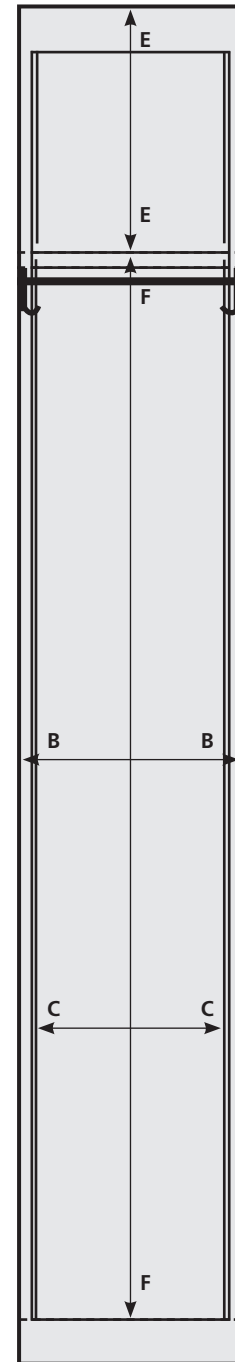
Standard lock fitting:

key operated camlock providing single point locking. Supplied with two keys.

Door/compartment identification:

none supplied as standard.

Number plates are available separately - refer to page F1 for details.



Example weights

Width x Depth mm	Initial	Nest 2	Nest 3
300 x 450	19kg	34kg	49kg
400 x 450	21kg	39kg	-

A = specified overall width

BB = internal width (overall width -3mm)

CC = clear opening (overall width -50mm)

D = specified overall depth (internal depth is overall depth -21mm)

EE = top compartment height = 329mm; top compartment clear height = 268mm

FF = hanging compartment height = 1405mm; hanging compartment clear height = 1386mm

Two-Tier Locker

Overall Dimensions in mm			Nest Availability		
Height	Width	Depth	Initial	Nest 2	Nest 3
1800	300	300	●	●	●
1800	300	450	●	●	●
1800	380	450	●	●	-
1800	380	600	●	●	-
1800	450	450	●	●	-
1800	450	600	●	●	-

Internal fittings:

- one fixed intermediate shelf
- each compartment has a fixed garment hanging rail (except for 300mm deep)
- each compartment has two coat hooks

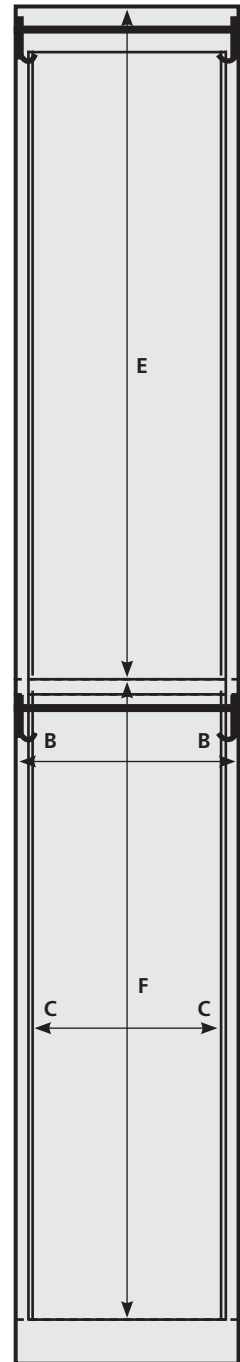
Standard lock fitting:

key operated camlock providing single point locking. Supplied with two keys.

Door/compartment identification:

none supplied as standard.

Number plates are available separately - refer to page F1 for details.



Example weights

Width x Depth mm	Initial	Nest 2	Nest 3
300 x 450	19kg	34kg	49kg
400 x 450	21kg	39kg	-

A = specified overall width

BB = internal width (overall width -3mm)

CC = clear opening (overall width -50mm)

D = specified overall depth (internal depth is overall depth -21mm)

E = top compartment height = 887mm;
top compartment clear height = 827mm

F = lower compartment height = 846mm;
lower compartment clear height = 827mm

Product Handbook for **Standard Steel Lockers**

Section D - **Standard Locker Configurations**

Three-Tier Locker

Overall Dimensions in mm			Nest Availability		
Height	Width	Depth	Initial	Nest 2	Nest 3
1800	300	300	●	●	●
1800	300	450	●	●	●
1800	380	450	●	●	-
1800	380	600	●	●	-
1800	450	450	●	●	-
1800	450	600	●	●	-

Internal fittings:

- two fixed intermediate shelves

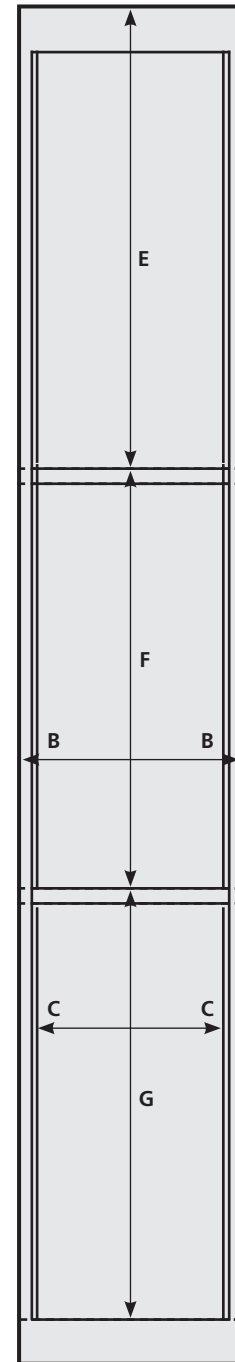
Standard lock fitting:

key operated camlock providing single point locking. Supplied with two keys.

Door/compartment identification:

none supplied as standard.

Number plates are available separately - refer to page F1 for details.



Example weights

Width x Depth mm	Initial	Nest 2	Nest 3
300 x 450	19kg	35kg	52kg
400 x 450	22kg	41kg	-

A = specified overall width
BB = internal width (overall width -3mm)
CC = clear opening (overall width -50mm)
D = specified overall depth (internal depth is overall depth -21mm)
E = Top compartment height = 608mm; top compartment clear height = 547mm
F = intermediate compartment height = 557mm; intermediate compartment clear height = 538mm
G = base compartment height = 569mm; base compartment clear height = 549mm

Four-Tier Locker

Overall Dimensions in mm			Nest Availability		
Height	Width	Depth	Initial	Nest 2	Nest 3
1800	300	300	●	●	●
1800	300	450	●	●	●
1800	380	450	●	●	-
1800	380	600	●	●	-
1800	450	450	●	●	-
1800	450	600	●	●	-

Internal fittings:

- three fixed intermediate shelves

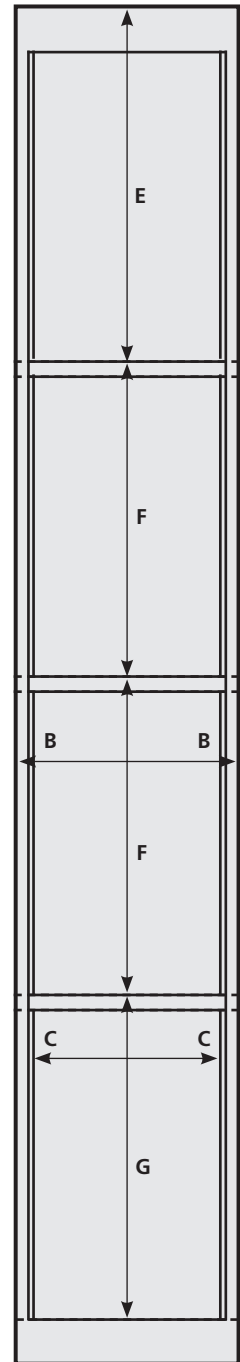
Standard lock fitting:

key operated camlock providing single point locking. Supplied with two keys.

Door/compartiment identification:

none supplied as standard.

Number plates are available separately - refer to page F1 for details.



Example weights

Width x Depth mm	Initial	Nest 2	Nest 3
300 x 450	20kg	37kg	54kg
400 x 450	23kg	43kg	-

A = specified overall width

BB = internal width (overall width -3mm)

CC = clear opening (overall width -50mm)

D = specified overall depth (internal depth is overall depth -21mm)

E = Top compartment height = 468mm; Top compartment clear height = 408mm

F = Intermediate compartment height = 417mm; intermediate clear height = 397.5mm

G = base compartment height = 428mm; base compartment clear height = 409.5mm

Product Handbook for **Standard Steel Lockers**

Section D - **Standard Locker Configurations**

Five-Tier Locker

Overall Dimensions in mm			Nest Availability		
Height	Width	Depth	Initial	Nest 2	Nest 3
1800	300	300	●	●	●
1800	300	450	●	●	●

Internal fittings:

- four fixed intermediate shelves

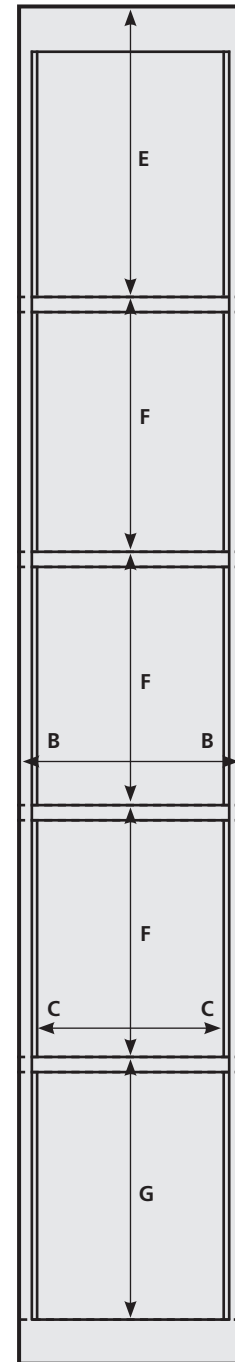
Standard lock fitting:

key operated camlock providing single point locking. Supplied with two keys.

Door/compartment identification:

none supplied as standard.

Number plates are available separately - refer to page F1 for details.



Example weights

Width x Depth mm	Initial	Nest 2	Nest 3
300 x 450	21kg	38kg	56kg

A = specified overall width

BB = internal width (overall width -3mm)

CC = clear opening (overall width -50mm)

D = specified overall depth (internal depth is overall depth -21mm)

E = Top compartment height = 385mm; top compartment clear height = 324mm

F = Intermediate compartment height = 334mm; intermediate clear height = 314.8mm

G = base compartment height = 349mm; base compartment clear height = 326mm

Six-Tier Locker

Overall Dimensions in mm			Nest Availability		
Height	Width	Depth	Initial	Nest 2	Nest 3
1800	300	300	●	●	●
1800	300	450	●	●	●

Internal fittings:

- five fixed intermediate shelves

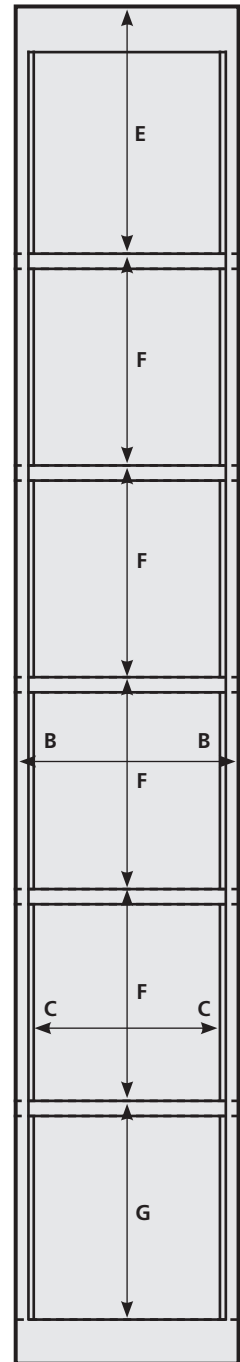
Standard lock fitting:

key operated camlock providing single point locking. Supplied with two keys.

Door/compartment identification:

none supplied as standard.

Number plates are available separately - refer to page F1 for details.



Example weights

Width x Depth mm	Initial	Nest 2	Nest 3
300 x 450	21kg	40kg	58kg

A = specified overall width

BB = internal width (overall width -3mm)

CC = clear opening (overall width -50mm)

D = specified overall depth (internal depth is overall depth -21mm)

E = Top compartment height = 329mm; top compartment clear height = 268mm

F = Intermediate compartment height = 278mm; intermediate clear height = 259mm

G = base compartment height = 292mm; base compartment clear height = 270mm

Product Handbook for **Standard Steel Lockers**

Section D - **Standard Locker Configurations**

Quarto Locker

Overall Dimensions in mm			Nest Availability				
Height	Width	Depth	Initial	Nest 2	Nest 3	Nest 4	Nest 5
511	300	300	●	●	●	●	●
511	300	450	●	●	●	●	●

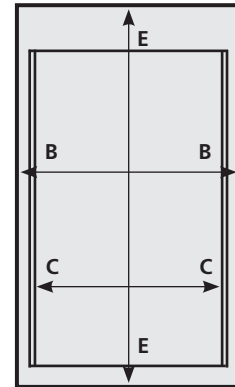
Standard lock fitting:

key operated camlock providing single point locking.
Supplied with two keys.

Door/compartment identification:

none supplied as standard.

Number plates are available separately - refer to page F1 for details.



A = specified overall width
BB = internal width (overall width -3mm)
CC = clear opening (overall width -50mm)
D = specified overall depth (internal depth is overall depth -21mm)
EE = compartment height: 507mm; compartment clear height = 420mm

Example weights

Width x Depth mm	Initial	Nest 2	Nest 3	Nest 4	Nest 5
300 x 450	6kg	13kg	19kg	26kg	32kg

Sixto Locker

Overall Dimensions in mm			Nest Availability				
Height	Width	Depth	Initial	Nest 2	Nest 3	Nest 4	Nest 5
372	225	450	●	●	●	●	●
372	300	300	●	●	●	●	●
372	300	380	●	●	●	●	●
372	300	450	●	●	●	●	●
372	380	380	●	●	●	●	●
372	380	450	●	●	●	●	●
372	450	450	●	●	●	●	●

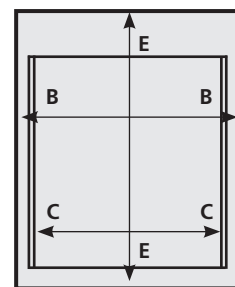
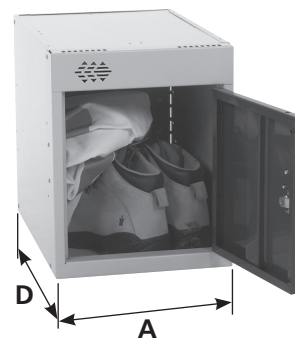
Standard lock fitting:

key operated camlock providing single point locking.
Supplied with two keys.

Door/compartment identification:

none supplied as standard.

Number plates are available separately - refer to page F1 for details.



A = specified overall width
BB = internal width (overall width -3mm)
CC = clear opening (overall width -50mm)
D = specified overall depth (internal depth is overall depth -21mm)
EE = compartment height: 368mm; compartment clear height = 208.5mm

Example weights

Width x Depth mm	Initial	Nest 2	Nest 3	Nest 4	Nest 5
300 x 450	5kg	10kg	16kg	21kg	26kg

Half Height Single Tier Locker

Overall Dimensions in mm			Nest Availability		
Height	Width	Depth	Initial	Nest 2	Nest 3
896	300	300	●	●	●
896	300	450	●	●	●

Internal fitting:

- two coat hooks (except for 300mm deep)

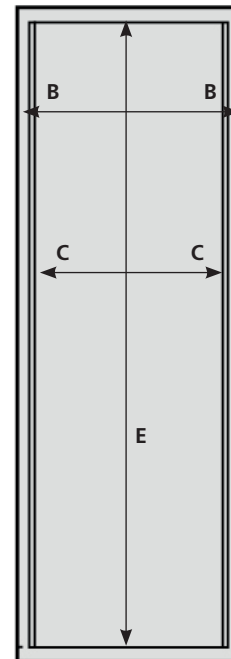
Standard lock fitting:

key operated camlock providing single point locking. Supplied with two keys.

Door/compartment identification:

none supplied as standard.

Number plates are available separately - refer to page F1 for details.



Example weights (2 door)

Width x Depth mm	Initial	Nest 2	Nest 3
300 x 450	10kg	19kg	28kg

A = specified overall width
BB = internal width (overall width -3mm)
CC = clear opening (overall width -50mm)
D = specified overall depth (internal depth is overall depth -21mm)
E = compartment height = 893mm; compartment clear height = 838.5mm

Product Handbook for **Standard Steel Lockers**

Section D - **Standard Locker Configurations**

**Half Height
Two Tier Locker**

Overall Dimensions in mm			Nest Availability		
Height	Width	Depth	Initial	Nest 2	Nest 3
896	300	300	●	●	●
896	300	450	●	●	●

Internal fitting:

- one fixed intermediate shelf

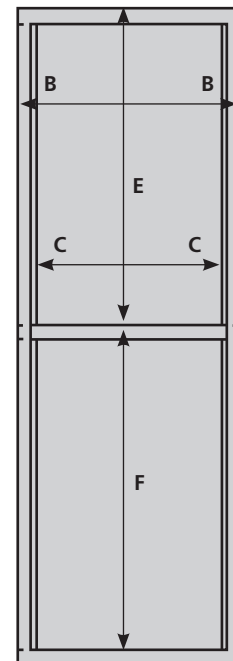
Standard lock fitting:

key operated camlock providing single point locking. Supplied with two keys.

Door/compartiment identification:

none supplied as standard.

Number plates are available separately - refer to page F1 for details.



Example weights (2 door)

Width x Depth mm	Initial	Nest 2	Nest 3
300 x 450	10kg	19kg	28kg

A = specified overall width
BB = internal width (overall width -3mm)
CC = clear opening (overall width -50mm)
D = specified overall depth (internal depth is overall depth -21mm)
E = top compartment height =435.5mm;
top compartment clear height = 409mm
F = Base compartment height = 456.5mm;
base compartment clear height = 409.5mm

Half Height Three Tier Locker

Overall Dimensions in mm			Nest Availability		
Height	Width	Depth	Initial	Nest 2	Nest 3
896	300	300	●	●	●
896	300	450	●	●	●

Internal fitting:

- two fixed intermediate shelf

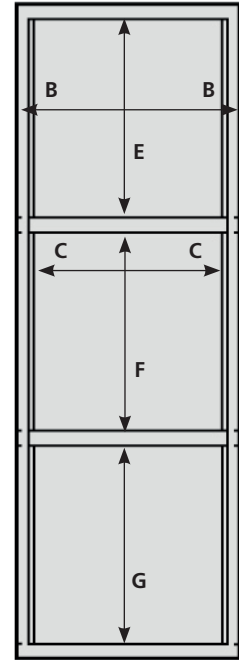
Standard lock fitting:

key operated camlock providing single point locking. Supplied with two keys.

Door/compartment identification:

none supplied as standard.

Number plates are available separately - refer to page F1 for details.



Example weights (2 door)

Width x Depth mm	Initial	Nest 2	Nest 3
300 x 450	10kg	19kg	28kg

A = specified overall width

BB = internal width (overall width -3mm)

CC = clear opening (overall width -50mm)

D = specified overall depth (internal depth is overall depth -21mm)

E = top compartment height = 296mm ;
top compartment clear height = 268.7mm

F = intermediate compartment height =

278mm ; intermediate compartment clear height = 259mm

G = base compartment height = 317mm;
base compartment clear height = 270.8mm

Product Handbook for **Standard Steel Lockers**

Section D - **Standard Locker Configurations**

**Three-Quarter Height
Two Tier Locker**

Overall Dimensions in mm			Nest Availability		
Height	Width	Depth	Initial	Nest 2	Nest 3
1382	300	300	●	●	●
1382	300	450	●	●	●

Internal fitting:

- one fixed intermediate shelf, two coat hooks (except for 300mm deep)

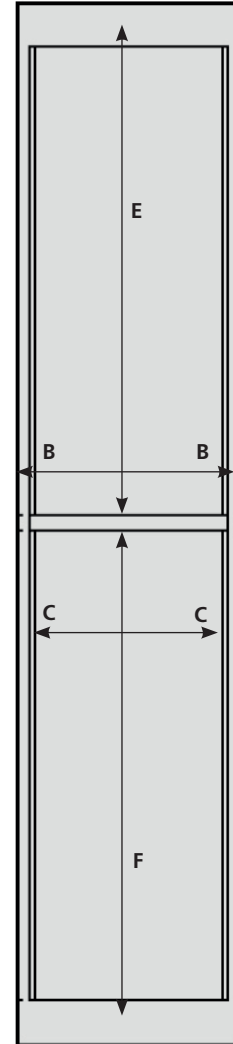
Standard lock fitting:

key operated camlock providing single point locking. Supplied with two keys.

Door/compartment identification:

none supplied as standard.

Number plates are available separately - refer to page F1 for details.



Example weights

Width x Depth mm	Initial	Nest 2	Nest 3
300 x 450	14kg	25kg	37kg

A = specified overall width
BB = internal width (overall width -3mm)
CC = clear opening (overall width -50mm)
D = specified overall depth (internal depth is overall depth -21mm)
E = top compartment height =435.5mm;
top compartment clear height = 409mm
F = base compartment height = 456.5mm;
base compartment clear height = 409.5mm

Three-Quarter Height Three Tier Locker

Overall Dimensions in mm			Nest Availability		
Height	Width	Depth	Initial	Nest 2	Nest 3
1382	300	300	●	●	●
1382	300	450	●	●	●

Internal fitting:

- two fixed intermediate shelves

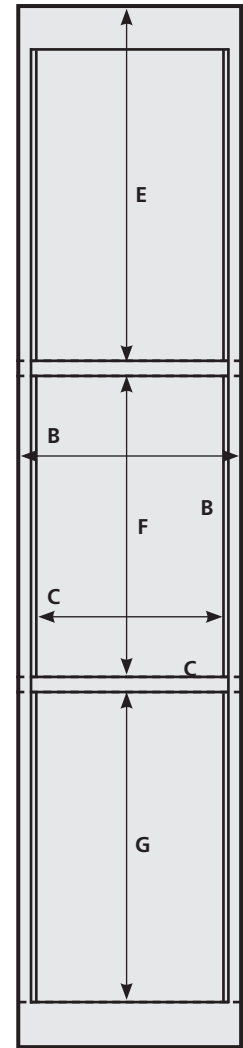
Standard lock fitting:

key operated camlock providing single point locking. Supplied with two keys.

Door/compartiment identification:

none supplied as standard.

Number plates are available separately - refer to page F1 for details.



Example weights

Width x Depth mm	Initial	Nest 2	Nest 3
300 x 450	15kg	28kg	41kg

A = specified overall width

BB = internal width (overall width -3mm)

CC = clear opening (overall width -50mm)

D = specified overall depth (internal depth is overall depth -21mm)

E = top compartment height = 469mm; top compartment clear height = 409mm

F = Intermediate compartment height = 418mm; intermediate compartment clear height = 398mm

G = Base compartment height = 428mm; base compartment clear height = 409.5mm

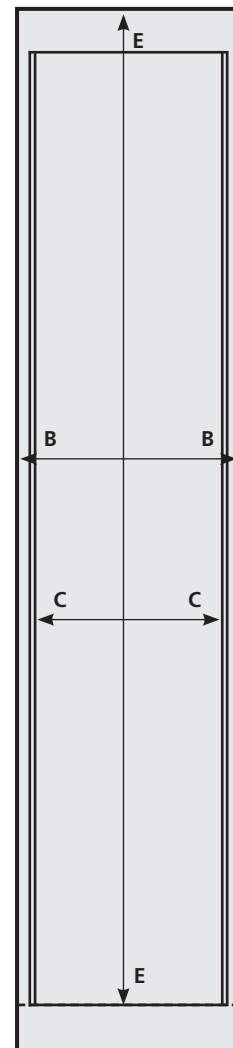
Product Handbook for **Standard Steel Lockers**

Section D - **Standard Locker Configurations**

Three-Quarter Height Single Tier Locker

Description & Application:

Suitable for in schools, for example, where a lower height single-tier locker is required, or to provide a compartment for hanging garments and other personal effects when fitted in conjunction with a lower, 'well' unit Golf Locker, as pictured below.



Overall Dimensions in mm			Nest Availability		
Height	Width	Depth	Initial	Nest 2	Nest 3
1382	300	300	●	●	●
1382	300	450	●	●	●
1382	380	450	●	●	●

Internal fitting:

- compartment has a fixed garment hanging rail with two coat hooks (except for 300mm deep)

Standard lock fitting:

key operated camlock providing single point locking. Supplied with two keys.

Door/compartment identification:

none supplied as standard.

Number plates are available separately - refer to page F1 for details.

Example weights

Width x Depth mm	Initial	Nest 2	Nest 3
380 x 450	15kg	28kg	-

A = specified overall width	D = specified overall depth (internal depth is overall depth -21mm)
BB = internal width (overall width -3mm)	E = compartment height: 1316mm; compartment clear height = 1256.5mm
CC = clear opening (overall width -50mm)	

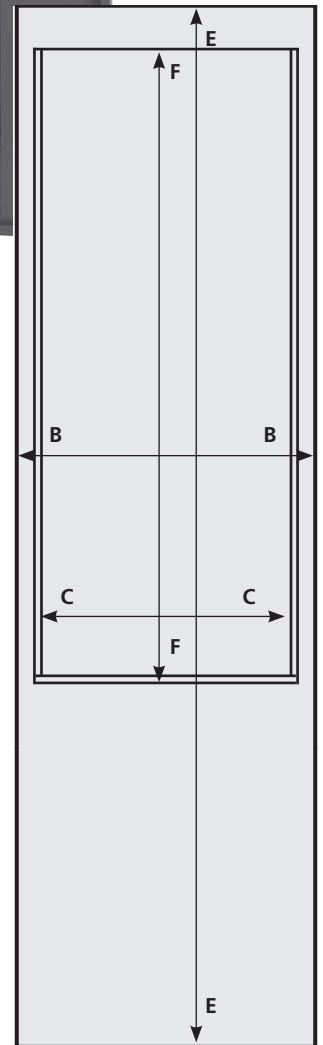
Three-Quarter Height Golf Locker (Lower unit, with 'well' base)

Description & Application:

Deep storage compartment accommodates golf bags. Mounting holes are provided in the front framework to allow bench seating to be fitted (seating supplied separately).

Note: This locker is for use at floor level only and may not be stacked over another locker.

The upper single-tier Golf Locker (refer to page D13) is designed to be fitted above, to provide a compartment for hanging garments and personal effects.



Overall Dimensions in mm			Nest Availability		
Height	Width	Depth	Initial	Nest 2	Nest 3
1382	380	450	●	●	●

Standard lock fitting:

key operated camlock providing single point locking. Supplied with two keys.

Door/compartment identification:

none supplied as standard.

Number plates are available separately - refer to page F1 for details.

Example weights

Width x Depth mm	Initial	Nest 2	Nest 3
380 x 450	15kg	28kg	-

- A** = specified overall width
- BB** = internal width (overall width -3mm)
- CC** = clear opening (overall width -50mm)
- D** = specified overall depth (internal depth is overall depth -21mm)
- EE** = compartment height: 1376mm (with base shelf inverted)
- FF** = compartment opening: 827mm

Product Handbook for **Standard Steel Lockers**

Section E - **Utility Locker Configurations**

Divided Locker with 6 compartments (also 'Nurses' Locker)

Description & Application:

a divided locker, with additional compartments for the storage of items of uniform or equipment.

Overall Dimensions in mm			Nest Availability		
Height	Width	Depth	Initial	Nest 2	Nest 3
1800	450	450	●	-	-

Internal fittings:

- fixed top shelf
- central vertical divider
- divided compartments have a fixed, full-width steel garment hanging rail and two plastic coat hooks
- right-hand compartment has three fixed shelves

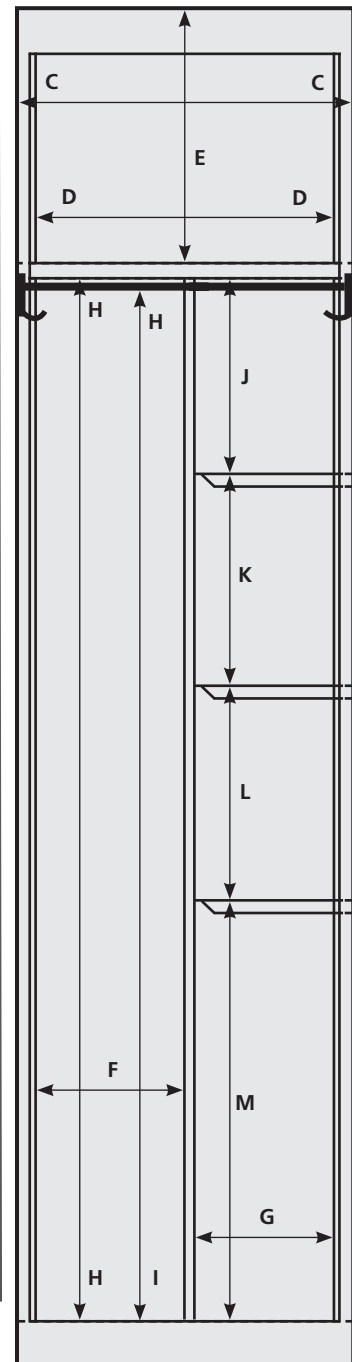
Standard lock fitting:

key operated camlock providing single point locking. Supplied with two keys.

Door/compartment identification:

none supplied as standard.

Number plates are available separately - refer to page F1 for details.



Example weights

Width x Depth mm	Initial
450 x 450	25kg

- A** = specified overall width
- B** = specified overall depth
- CC** = compartment internal width: 447mm
- DD** = compartment clear opening: 400mm
- E** = top compartment height = 329mm; top compartment clear height = 268mm
- F** = left compartment clear opening = 192mm
- G** = right compartment clear opening = 180mm
- G** = right compartment clear opening = 180mm
- HH** = hanging compartment clear height = 1405mm
- HI** = hanging compartment clear height to rail = 1386mm
- J, K, L** = right upper intermediate compartment clear height = 259mm (278mm would be overall height inside compartments.)
- M** = right base compartment height = 569mm; base compartment clear height = 549mm

Divided Locker with 3 compartments (also 'Clean & Dirty' Locker)

Description & Application:

a divided locker, which can be used for the separation of clean from dirty clothing.

Overall Dimensions in mm			Nest Availability		
Height	Width	Depth	Initial	Nest 2	Nest 3
1800	450	450	●	-	-

Internal fittings:

- fixed top shelf
- central vertical divider
- each vertical compartment has a fixed steel garment hanging rail
- each vertical compartment has a plastic coat hook

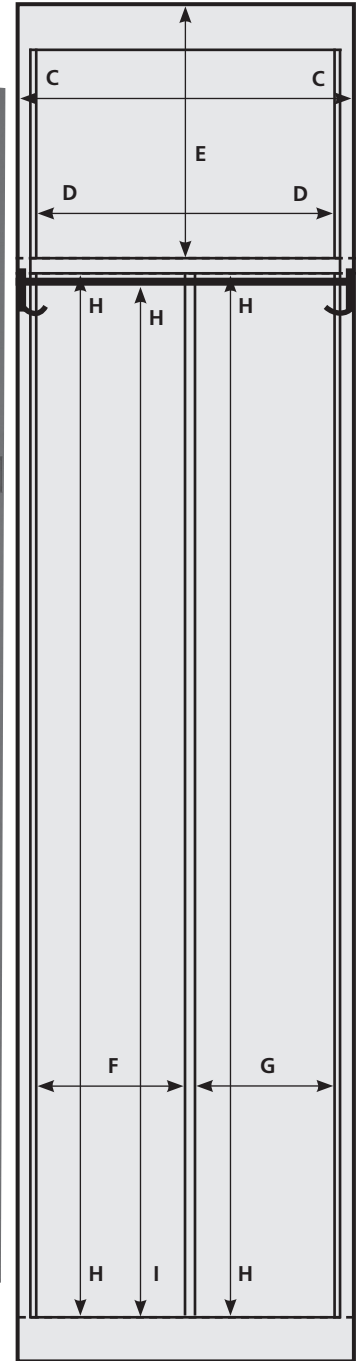
Standard lock fitting:

key operated camlock providing single point locking. Supplied with two keys.

Door/compartment identification:

none supplied as standard.

Number plates are available separately - refer to page F1 for details.



Example weights

Width x Depth mm	Initial
450 x 450	25kg

A = specified overall width	F = Left hanging compartment clear opening = 192mm
B = specified overall depth (internal depth is overall depth -21mm)	G = Right hanging compartment clear opening = 180mm
CC = compartment internal width: 447mm	HH = Lower hanging compartments clear height = 1405mm
DD = compartment clear opening: 400mm	HI = Lower hanging compartments clear height to rail = 1386mm
E = top compartment height = 329mm top compartment clear height = 268mm	

Product Handbook for **Standard Steel Lockers**

Section E - **Utility Locker Configurations**

Two-Person Locker

Description & Application:

a locker providing two garment hanging compartments paired with full width storage compartments for personal items.

Matched locks allow each user to have one key to open their paired vertical and horizontal compartments.

Overall Dimensions in mm			Nest Availability		
Height	Width	Depth	Initial	Nest 2	Nest 3
1800	450	450	●	-	-

Internal fittings:

- fixed top shelf, giving two horizontal compartments
- central vertical divider
- each vertical compartment has two plastic coat hooks

Standard lock fitting:

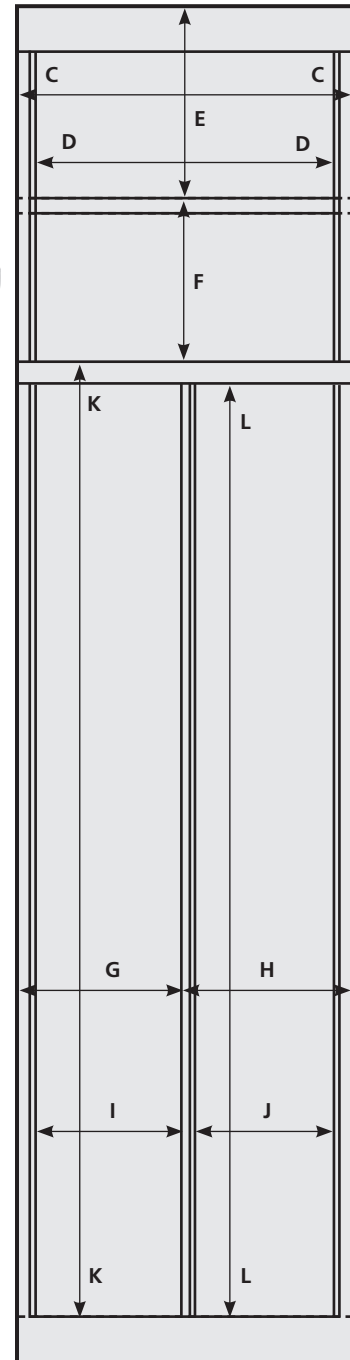
key operated camlocks providing singlepoint locking.

Four keys are supplied (including 2 spare keys). The horizontal & vertical compartments are paired/suited, allowing each individual key to operate one lower vertical compartment as well as one top horizontal compartment.

Door/compartment identification:

none supplied as standard.

Number plates are available separately - refer to page F1 for details.



Example weights

Width x Depth mm	Initial
450 x 450	26kg

- A** = specified overall width
- B** = specified overall depth
- CC** = compartment internal width: 447mm
- DD** = compartment clear opening: 400mm
- E** = upper top compartment height = 253mm; upper top compartment clear opening = 193.5mm
- F** = lower top compartment height = 214mm; lower top compartment clear opening = 211.5mm
- G** = lower left hanging compartment internal width = 231mm
- H** = lower right hanging compartment internal width = 213mm
- I** = lower left hanging compartment clear opening = 198mm
- J** = Lower right hanging compartment clear opening = 198mm
- KK** = Lower hanging compartment internal height = 1266mm
- LL** = Lower hanging compartment clear height = 1239.5mm

Escutcheon Plates, Locker Numbering (Labels & Plates)

Escutcheon plates are also often referred to as 'cardholders'.

From November 2018, the circular 'LINK' branded escutcheon plate (shown throughout this document), is superseded.

Likewise, the 'BROWNS' escutcheon plate is also made obsolete.

From November 2018, two standard escutcheon plates are available:

'LINK' branded are used when a product is sold direct to the end user.

'WHITTAN' branded, trade escutcheons are used when a product is sold on via a 3rd party (i.e. Distributor). This removes any reference to LINK.

These escutcheon plates are interchangeable, making use of the same mounting holes on the locker doors. The double 'D' lock hole in the escutcheon plate is replaced by circular hole for escutcheon plate variants used with coinlocks.

A larger double 'D' variant was previously available for use with the old style 'ASSA' lock variants (now with only limited availability using the old style cardholders for spares/repairs).

The 'new' 2018 cardholder designs use different mounting holes in the doors. They are therefore not compatible for use on existing lockers, unless the entire door assembly is replaced.

Number labels and/or insert plates are available for all escutcheon plate variants.

Number Labels

Ordered separately. Peel-off numbers (0-9) on a self-adhesive sheet, printed black numbers on silver background. Allows compartment numbering using up to 3 digits in the smaller recesses of the LINK branded escutcheon plate, or single recess of the WHITTAN branded escutcheon plate.

Numbered Insert Plates

Ordered separately in the number sequence required. Rigid nylon plate with self-adhesive backing. Locates in the larger 'teardrop' recess of the Link escutcheon plate, or single recess of the WHITTAN branded escutcheon plate. Can be specified in the following colour options:

- White numbers on red background
- White numbers on blue background
- Black numbers on white background
- Black numbers on silver background



'LINK' branded are used when a product is sold direct to the end user.



'WHITTAN' branded, trade escutcheons are used when a product is sold on via a 3rd party (i.e. Distributor).

Product Handbook for **Standard Steel Lockers**

Section F - **Accessory Fittings for Standard Lockers**

Garment Hanging Rail - standard & heavy duty

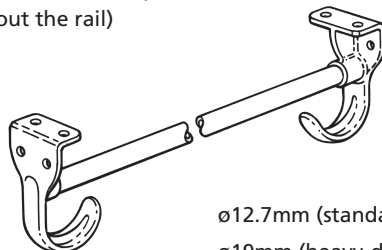
Material & Finish:

Mild steel hollow tube, 0.5mm gauge, zinc plated. Supporting hooks are plastic. Maximum load, evenly distributed along the rail, for standard duty rail is 8kg.

Heavy Duty Rail (with reinforced shelf):

Can be specified in place of the standard hanging rail when a heavier load is to be carried - for example, when bulky protective clothing is to be stored. Maximum load, evenly distributed along the rail, is 27kg.

Rail supported by twin coat hooks (also available as separate items, without the rail)



ø12.7mm (standard-duty)

ø19mm (heavy-duty)

Locker Width	Rail length
225mm	217mm
300mm	292mm
380mm	372mm
450mm	442mm

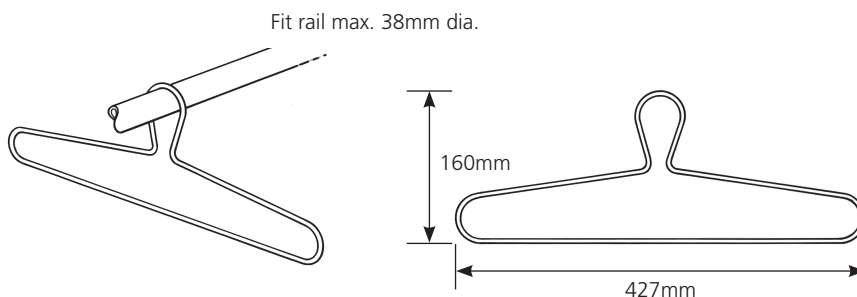
Captive (Clothes) Hangers

Description & Application:

Captive hangers are fully enclosed, including the hook, so that once they are fitted to the hanging rail they cannot be removed, thus preventing theft, accidental removal and loss.

Note: captive hangers are added to the hanging rails during manufacture and are not easily fitted to an assembled locker.

Material & Finish: 5mm dia. mild steel wire, powdercoated.

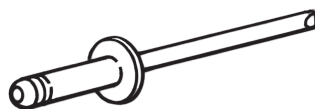


Locker Nesting Fixings - rivets & bolts

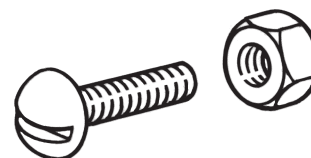
Description & Application:

Nesting Rivets - preferred means of joining lockers side to side or back to back. These rivets are also used when fixing lockers to stands. 4x12mm type 510 aluminium/steel rivets. Supplied in packs of 50.

Nesting Bolts - slotted dome-headed bolt, 1/2" x 3/16", with nut. Steel, zinc plated and clear passivated. Supplied in packs of 25.



Nesting Rivet



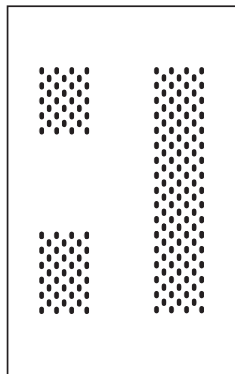
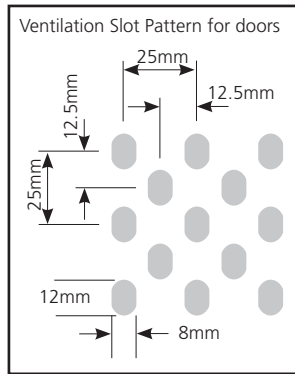
Nesting Bolt

Ventilated Doors

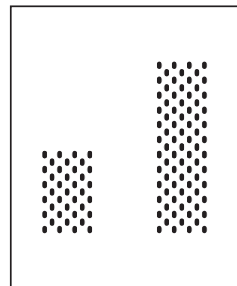
Description

Doors can be specified with patterns of punched slots to provide additional ventilation to locker compartments. The slot patterns vary in extent, depending on the size of the locker door - typical examples, shown in front elevation, are illustrated here.

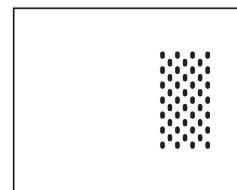
Note: ventilated doors are available on extended lead times to be confirmed at the date of order and at additional cost to the standard locker unit to which they are fitted.



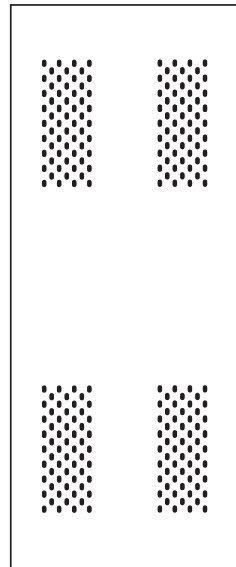
Three-tier door
380mm wide



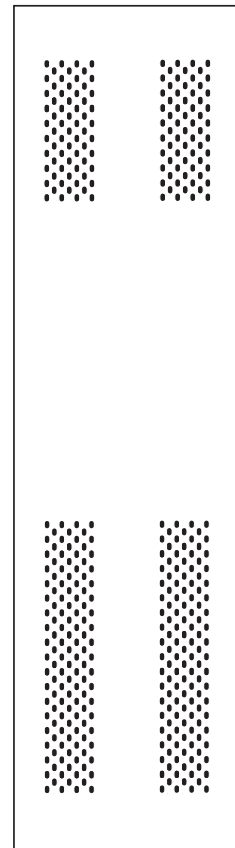
Four-tier door
380mm wide



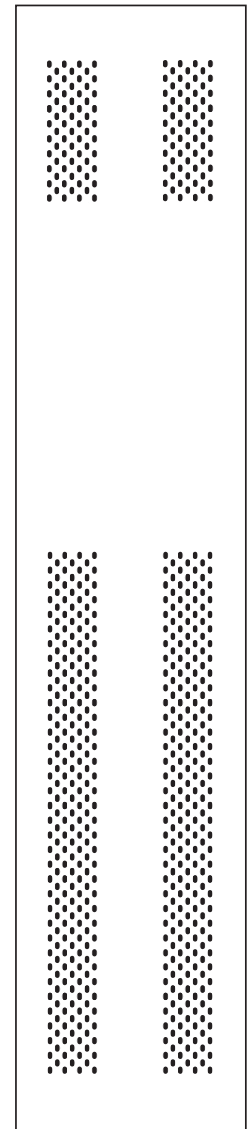
Six-tier door
380mm wide



Two-tier door
380mm wide



Three-quarter height single
tier door 380mm wide



Single-tier door
380mm wide

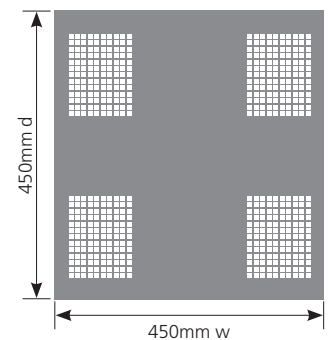
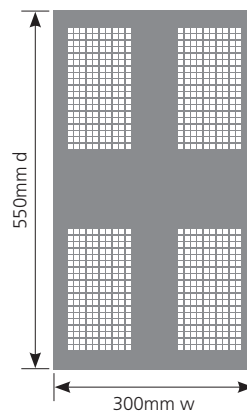
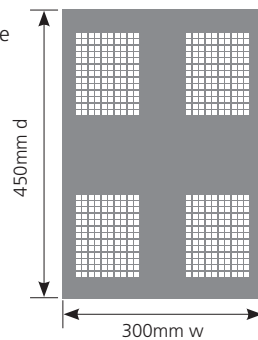
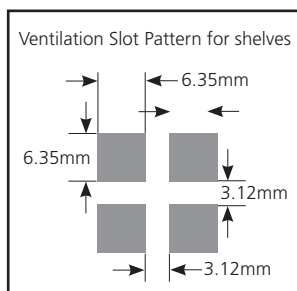
Ventilated Shelves

Description

Shelves can be specified with patterns of punched slots to provide additional ventilation to locker compartments.

The slot patterns vary in extent, depending on the size of the shelf - typical examples, shown in plan view, are illustrated here.

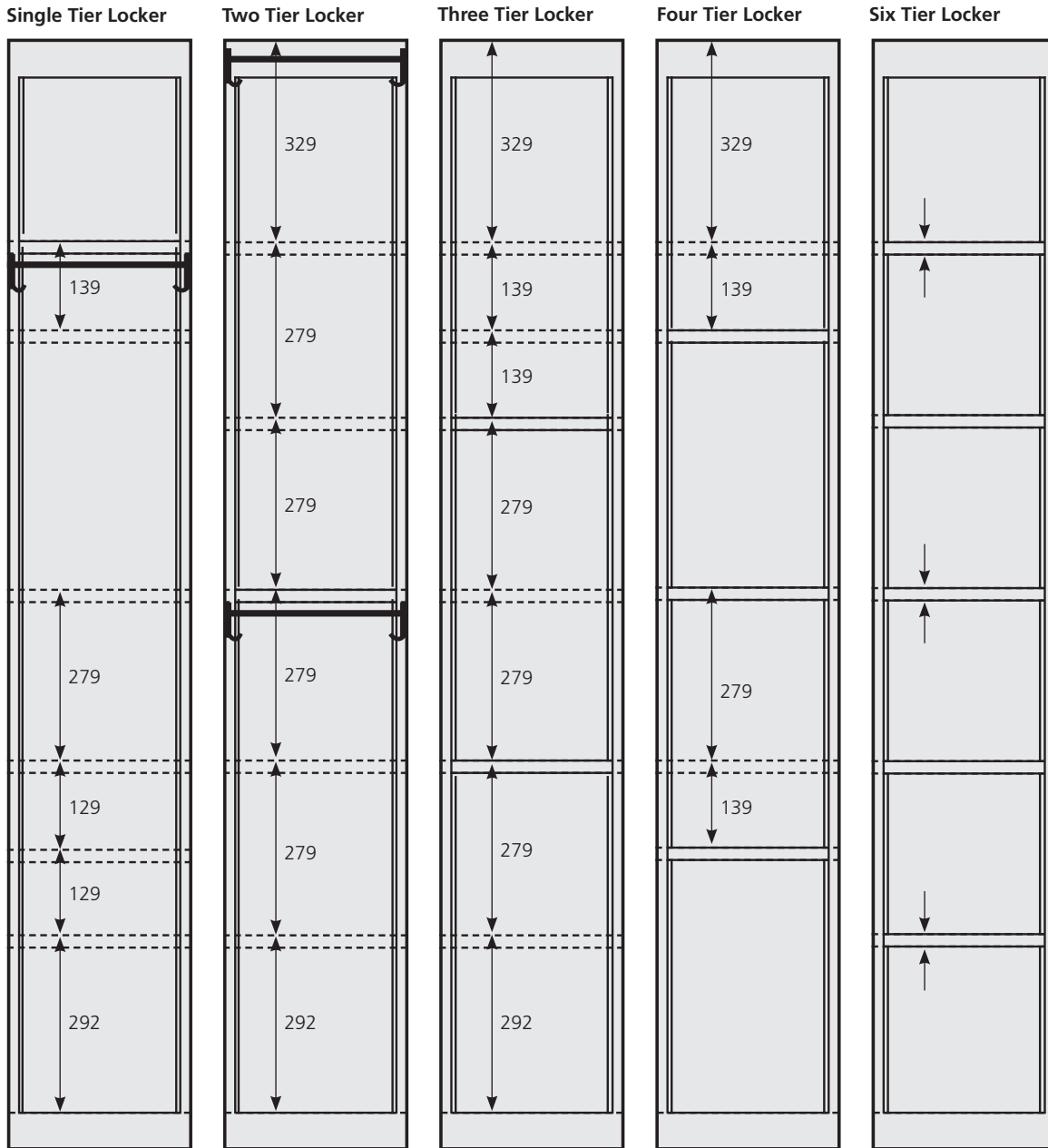
Note: ventilated shelves are available on extended lead times to be confirmed at the date of order and at additional cost to the standard locker unit in which they are fitted.



Product Handbook for **Standard Steel Lockers**

Section F - **Accessory Fittings for Standard Lockers**

Additional Shelf Positions



Lockers can be specified with additional shelves, offering further storage versatility with an extended range of compartment heights.

Note: The design of the 5-Tier locker does not allow additional shelves.

The illustration above shows usable positions for additional shelves:

- Additional shelf positions indicated by broken lines
- Standard fitted shelves indicated by solid lines
- 6-Tier allows shelves at positions indicated to be deleted and 3-Tier doors fitted

Note: these are factory-fitted items, available on extended lead times to be confirmed at the date of order. Additional shelves are priced individually, in addition to the cost of the standard locker unit to which they are fitted.

Sloping Tops for Lockers

Description:

Fabricated sloping box cover, factory-fitted to nested locker units. Comprises top and rear cover section, with end and interim triangular supporting panels.

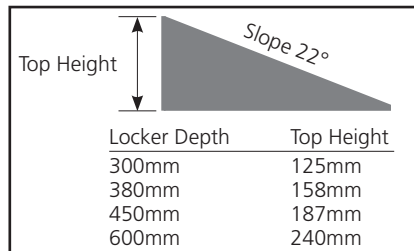
Material is mild steel, cold rolled, 0.5mm gauge, riveted assembly. Powder-coated light grey RAL 7035 as standard.



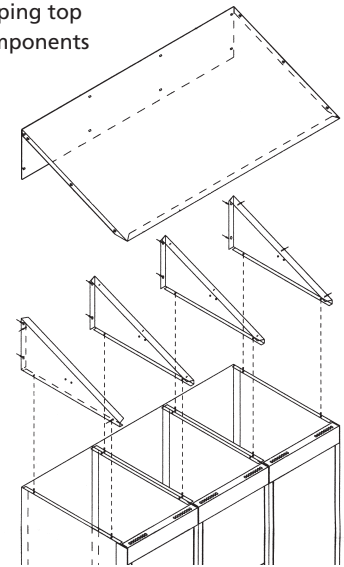
Application:

Sloping tops prevent litter and other items being left on locker tops and are easier to keep clean than the standard flat top.

Appropriate to most changing areas, sloping tops are an essential feature for lockers in hygiene sensitive areas - particularly hospitals and the food industry.



Sloping top components



Locker Stands

Application:

Locker support stands are used to raise lockers from the surface of the floor.

Benefits are:

- Minimises damage and wear to the base of the supported lockers
- Allows cleaning of the floor under lockers
- Adjustable feet allow level installation of lockers on a sloping floor
- Raises lockers above a floor which may sometimes be damp - during cleaning for example - to reduce the risk of corrosion

Support stands are also available extended in front of the lockers to carry a slatted seat.

Material & Finish:

25mm square welded steel tube legs and support frame, with welded box-section fixing lugs, painted light grey RAL 7035 as standard.

Plastic feet are height adjustable 0-10mm as standard.

Seat units fitted with hard wood slats with clear lacquer finish, 30mm thick as standard, or 38mm thick polymer slats with black paint brushed on cut ends. If cut on site, cut ends are not visible, therefore lacquer or paint not applied.

Two slats are fitted as standard. An optional 3rd slat can be specified.

Installation:

With the locker assembly positioned on the locker stand, drill 4mm diameter holes through the base shelf into the stand fixing lugs.

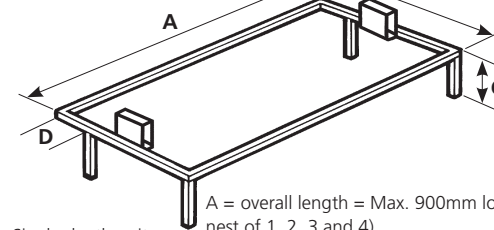
The holes used for mounting the hanging rails to the shelves are generally used as pilot holes for drilling points through into the stand lugs.

1x rivet is needed per stand fixing lug. The rivets are the same as used when nesting the lockers (see Page F2). Alternatively, if rivet guns are unavailable, no.6x30mm TEK screws can be used.

If fixing lugs are not provided on the stands, the locker must be ordered with the base shelf inverted. The rivets can then go through the shelf directly into the stand.

If the locker has an inverted base shelf or narrow bottom horizontal (e.g. half height and quarto lockers), the stand must be ordered without the fixing lugs.

Locker Stand



Single depth unit shown. Double-depth units also available for back to back runs

A = overall length = Max. 900mm locker nested width (to support nest of 1, 2, 3 and 4).

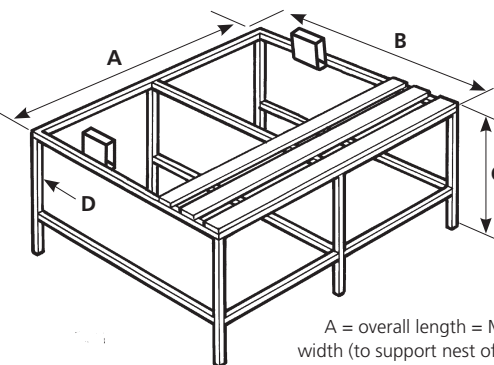
B = overall depth = locker depth +300 or 450mm seat

C = frame height with adjustable foot = 150mm + 10mm adjustment.

D = rear leg is inset 50mm as standard, but can be inset 150mm to clear skirting.



Locker Stand with seat



Single depth unit shown. Double-depth units also available for back to back runs

A = overall length = Max. 900mm locker nested width (to support nest of 1, 2, 3 and 4).

B = overall depth = locker depth +300mm seat

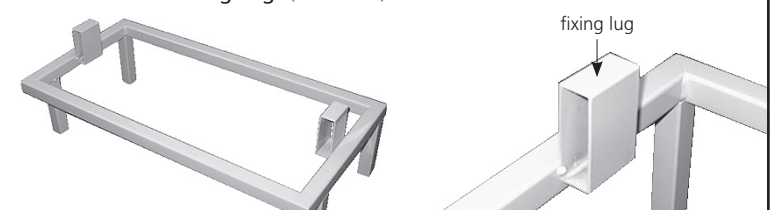
C = overall height with adjustable foot = 430mm (with timber slats), or 438mm (with polymer slats) + 10mm adjustment.

D = rear leg is inset 50mm as standard, but can be inset 150mm to clear skirting.



Two slats are fitted as standard. An optional 3rd slat can be specified.

Stand to Locker Fixing Lugs (detail inset)



Product Handbook for **Standard Steel Lockers**

Section F - **Accessory Fittings for Standard Lockers**

Bridging Unit

Description:

A Bridging Unit comprises:

Top - Open-base box cover, with integral 'captive' hanging rail. Cover is mild steel, 0.7mm gauge, formed and welded. Powdercoated light grey RAL 7035 as standard. Rail is hollow steel tube, self-colour.

Base - Supplied as a kit (with assembly instructions), comprising: framework and legs of 25mm square steel tube lengths, corner connecting joints, slats of hollow steel tube. Legs have black plastic feet.


Application:

Bridging units provide additional space for garment hanging. They can be fitted adjacent to lockers with compartments which do not have hanging height. The base unit provides a raised rack for footwear or other items.

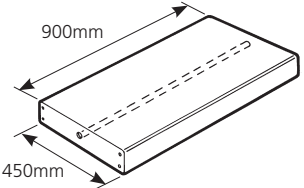
Note:

Clothes hangers are not supplied with the top units. 'Captive' hangers are available (refer to page F2). These cannot be removed from the rail once the bridging unit top is installed.

Quarto or Sixto lockers can be fitted above Bridging Units for additional storage space

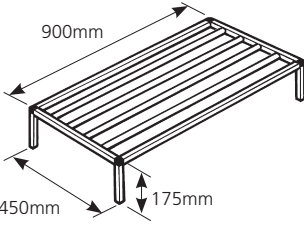


Bridging Unit Top



Installed between the adjacent supporting lockers using 4-off nuts & bolts supplied (type 1/2" x 3/16", slotted dome-headed) or 4-off rivets (type 510 - not supplied)

Bridging Unit Base



Sleeve-Lock Unit

Description:


Open-base box housing, mild steel, 0.7mm gauge, formed and welded. Powder-coated light grey RAL 7035. Housing carries up to 13 individual 'sleeve-locks'. Each sleeve lock unit comprises a two-part, key-operated snap-lock connected by a steel chain (3mm gauge, zinc-plated).

A hanging rail (hollow steel tube) runs the length of the housing. Supplied with self-adhesive nylon number discs, 25mm diameter, numbered 1-13 (paired units are sequenced 1-26).

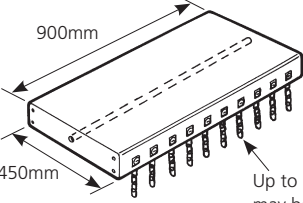
Application & Operation:

A variant of the Bridging Unit Top, a Sleeve-Lock unit provides secure storage for hanging garments. Each user has their own designated lock and key. After placing their coat or jacket over a clothes hanger (not supplied), the chain is passed through one of the arms of the garment and the loose end of the snap-lock is connected with the matching lock in the housing. The garment is now secured against casual theft.

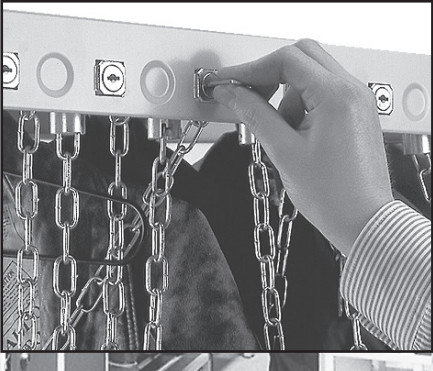
To release the garment, the owner uses their key to open the lock and withdraws the chain, left hanging for future use.



Sleeve-Lock Unit



Installed between the adjacent supporting lockers using 4-off nuts & bolts supplied (type 1/2" x 3/16", slotted dome-headed) or 4-off rivets (type 510 - not supplied)



Standard camlock (key-operated cam lock)

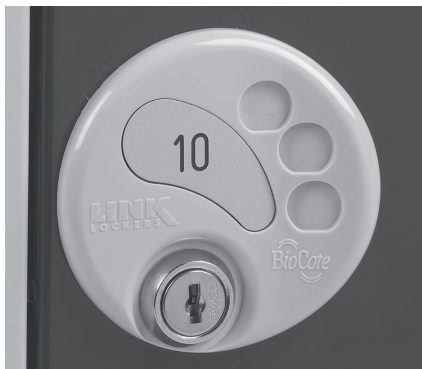
Description:

Standard lock fitting for standard steel lockers. Lock is factory-fitted, with two keys included.

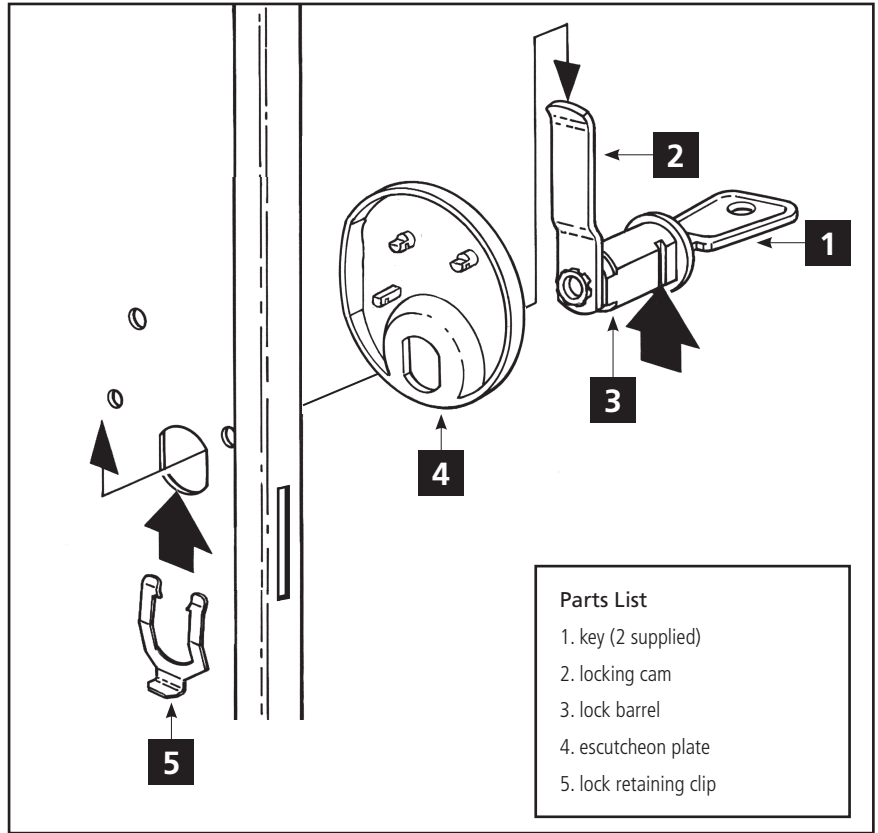
Note: all lockers are supplied with this lock unless an alternative fitting is specified.

Locking operation:

Turning the key anti-clockwise locks the door, with the cam retained by the door frame; turning clockwise releases the cam to open the door. The key can be removed with the cam in the locked position.



Note: lock assembly illustrations are not to a constant scale



- Parts List**
- 1. key (2 supplied)
 - 2. locking cam
 - 3. lock barrel
 - 4. escutcheon plate
 - 5. lock retaining clip

Standard Hasp & Staple (for use with a padlock)

Description:

Alternative lock fitting for standard steel lockers, with a locking handle secured by a padlock. Lock is factory-fitted.

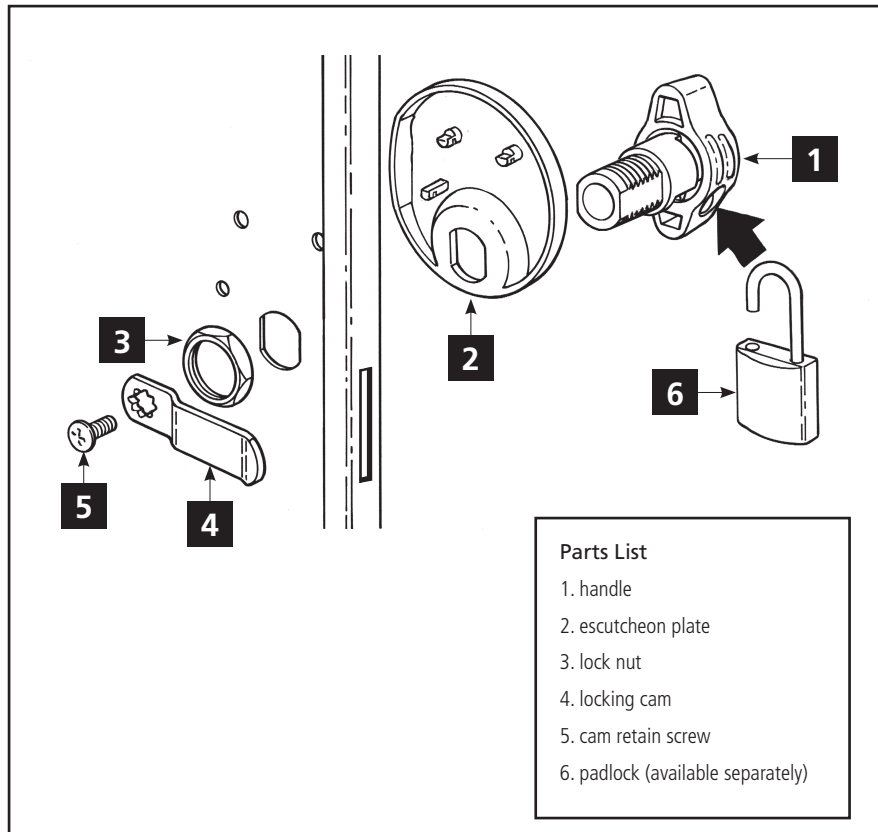
Note: a padlock is NOT supplied and must be ordered separately - refer to page G6.

Locking operation:

From the horizontal position, turning the handle through 90° anti-clockwise locks the door, locating the cam behind the door frame. Apply padlock. Removing the padlock and turning the handle through 90° clockwise unlocks the door.



Note: lock assembly illustrations are not to a constant scale



- Parts List**
- 1. handle
 - 2. escutcheon plate
 - 3. lock nut
 - 4. locking cam
 - 5. cam retain screw
 - 6. padlock (available separately)

Product Handbook for **Standard Steel Lockers**

Section G - **Locks**

Push to Turn (clutch operated) Hasp & Staple Lock for Padlock

Description:

Alternative lock fitting for Metric Standard steel lockers, with a locking handle secured by a padlock. This lock provides additional security over the standard Hasp & Staple lock, as is harder to force open. Lock is factory fitted.

Note: a padlock is NOT supplied and must be ordered separately – refer to page G6.

Locking operation

From the horizontal position, pushing the handle in and turning through 90° anti-clockwise locks the door, locating the cam behind the door frame. Pull handle back out and apply padlock. Removing the padlock, pushing the handle back in and turning through 90° clockwise unlocks the door. With the cam in the locked position and padlock fitted, the lock handle will spin freely, preventing the lock from being forced open. The lock mechanism will only engage with the padlock removed and the handle depressed.



Note: lock assembly illustrations are not to a constant scale

3-Point Locking Mechanism

Description:

Alternative lock fitting for standard steel lockers, providing a higher level of security for large doors. In addition to the standard cam arm, additional locking points are provided by rods locating into adjacent holes at the top and base of the locker frame.

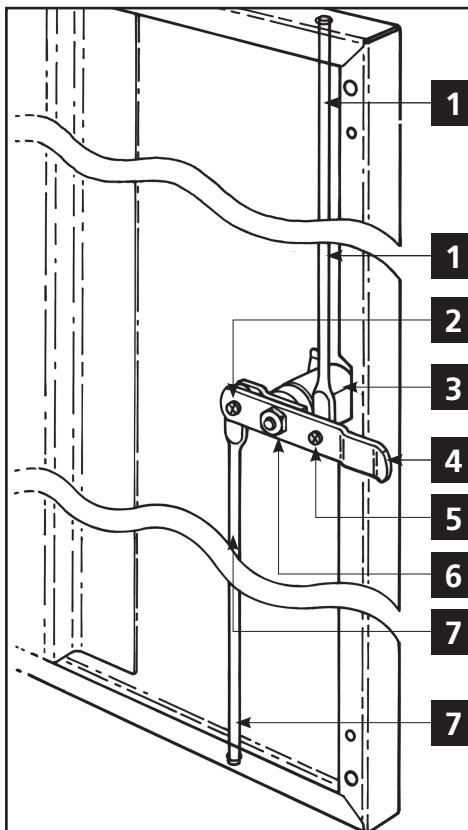
Note: 3-point locking can be factory-fitted to the following locker types only:

- 1800mm full height single tier/door lockers
- 896mm half height single tier/door lockers

Locking operation:

The standard camlock or standard hasp & staple fitting can be used to operate the 3-point mechanism. The cam arm is connected to the locking rods, raising or lowering them.

When the key is removed the cam locks in the closed position.



Note: 3-point locking mechanism for single-tier locker is illustrated, shown assembled as three cut-away sections showing: top, centre and base of door.

Parts List (for single-tier locker)

1. upper locking rod
 2. lower locking rod retaining rivet
 3. lock assembly
 4. locking cam
 5. upper locking rod retaining rivet
 6. cam retaining nut
 7. lower locking rod
- standard Camlock is supplied with two keys (not illustrated)

Note: lock assembly illustrations are not to a constant scale

Coin (or Token) Return Lock

Description:

Alternative lock fitting for standard steel lockers, for coin or token operation. Lock is factory-fitted, two keys included.

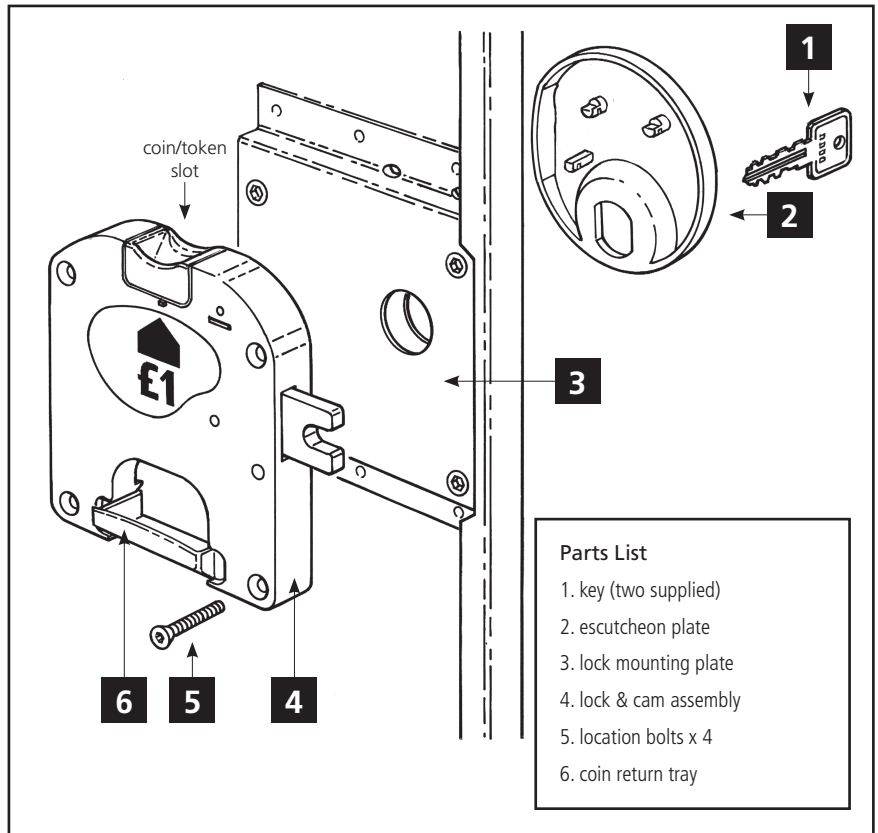
Options typically for £1, 1 Euro or token coins. Other coin options available.

Locking operation:

The key is held captive in the lock until a coin or token is inserted. The door is then locked by turning and then removing the key. When the door is opened on the key, the coin or token is returned into the tray and the key held captive once again.



Note: lock assembly illustrations are not to a constant scale



Coin or (Token) Retain Lock

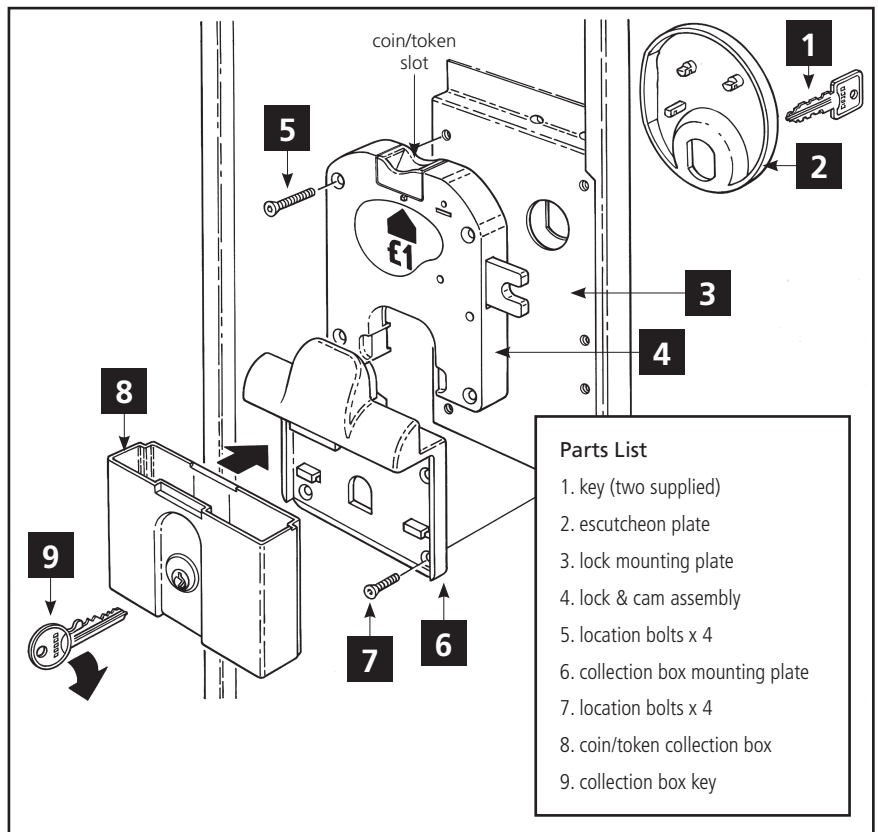
Description:

Alternative lock fitting for metric standard steel lockers, for coin or token operation. Lock is factory-fitted, two keys included.

Options typically for £1, 1 Euro or token coins. Other coin options available.

Locking operation:

The key is held captive in the lock until a coin or token is inserted. The door is then locked by turning and then removing the key. When the door is unlocked the coin or token is retained in the collection box and the key held captive once again.



Product Handbook for **Standard Steel Lockers**Section G - **Locks****Digital Combination Lock****Description:**

Alternative lock fitting for Metric Standard steel lockers, replacing key operation. Lock is factory-fitted and is supplied with the combination number and instructions.

Two locks are used, KitLock or the Lowe & Fletcher 3780 series.

The digital combination locks are used in either Private or Public user modes.

- Private mode = Same user code for life.
- Public = The user sets the code every time the lock is used.

Locking operation:**Private Mode –**

1. Input the pre-set 4-digit user code and the mechanism automatically locks.
2. Input the pre-set 4-digit user code again and the mechanism releases.

Refer to individual lock user instructions for information on how to set/change these codes.

Public Mode –

1. Enter a desired new user code twice to set the code and operate the automated locking mechanism.
2. Enter the user code and the mechanism releases.

The user code is defined in this manner every time the mechanism is locked.

For the KitLock, if a user code is lost, the lock can be opened using the Master Code. If the battery fails the lock can be opened by placing a PP3 battery against the contact points surrounding the blue & red LED's, and entering the Master Code.

For the Lowe & Fletcher locks, if the code is lost, or electronics fail, the lock can be opened using a master key.



Note: lock assembly illustrations are not to a constant scale

4-digit Mechanical Combination Lock

Description:

Alternative lock fitting for Metric Standard steel lockers, replacing key operation. Lock is factory-fitted and is supplied with the combination number and instructions. The 4-wheel combination offers 10,000 code combination differs.

Two versions are available:

Lowe & Fletcher 2800 series lock –

Recognised by having an epoxy logo badge on the front face. The main body of the lock stays in the horizontal position whilst the black exterior grip handle is rotated by 90 degrees to the open position. The face of the lock is available in silver (standard), white or black. A waterproof version of this lock is also available.

Prefect lock – The whole body is one colour – available in either black or white. The whole body of the lock rotates by 90 degrees to the open position. This lock is suitable for use in wet or dry areas.

Locking operation (Lowe & Fletcher 2800 series lock):

Select the current user code using the 4 dials to release the locking mechanism. The exterior grip handle can then be rotated 90 degrees clockwise to open the door. To lock the door, rotate 90 degrees anti-clockwise and scramble the numbers on the 4 dials.

To change the code – Select the current user code. Rotate the exterior grip handle 90 degrees to the open position. The code change button is then activated. Press and hold the code change button whilst rotating the individual dials to the desired new code. Release the code change button to set the new code.

Resetting lost codes – Insert the master key and turn it clockwise by 90 degrees. Rotate the individual dials upwards. The dials will stick when they get to the current set user code. Turn the key 90 degrees anti-clockwise and remove the key from the lock. The lock is now unlocked and can be opened, or the code reset using the method above.



Locking operation (Prefect Lock):

Select the current user code using the 4 dials to release the locking mechanism. The whole lock body can then be rotated 90 degrees clockwise to open the door. To lock the door, rotate 90 degrees anti-clockwise and scramble the numbers on the 4 dials.

To change the code – Select the current user code on the dials to release the locking mechanism. Press and hold the code setting button the side of the lock body whilst turning the individual dials to the desired new combination. Once the button is released, the new code is set.

Resetting lost codes – Insert the master key and turn it clockwise by 90 degrees. The lock mechanism is now released. With the key held in this release position, spin the individual dials downwards. The dials will stick when they get to the current set user code. Turn the key 90 degrees anti-clockwise and remove the key from the lock. The lock is now unlocked and can be opened, or the code reset using the method above.

Note: lock assembly illustrations are not to a constant scale

Product Handbook for **Standard Steel Lockers**Section G - **Locks****Keys & Master keys****Description:**

Master keys can be supplied for all key operated lock types, providing the means to 'override' and access all locker compartments, for security purposes or to cover for lost keys.

Locker keys are identified by their engraved branding. 'WSS' branded keys (abbreviation for Whittan Storage Systems) are used with locks supplied by DOM. 'WHITTAN' branded keys are used with locks supplied by Lowe & Fletcher.' Replacement keys for individual locks are also available.

**Numbered Key Rings****Description:**

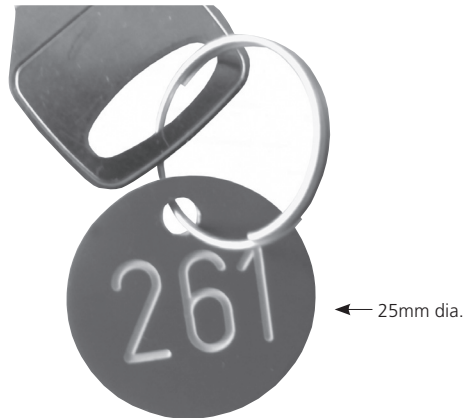
A practical means of identifying keys with their respective doors /compartments, particularly suitable for coin or token operated lockers.

The numbered identity disc is held captive with the key inside a split ring.

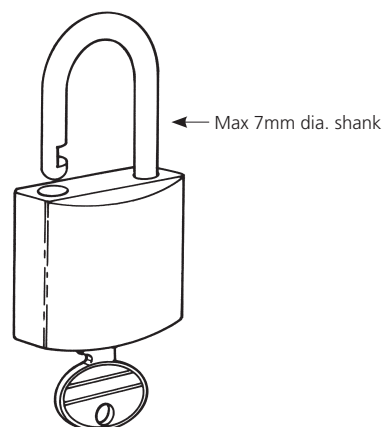
Discs are supplied in numbered series', as requested.

Colours:

black numbers on white background,
white numbers on a red background,
white numbers on a blue background,
black numbers on a silver background.

**Padlock****Description:**

Standard Padlock – pin-tumber cylinder padlock in cast brass, with hardened steel shackle. Supplied with two keys. For use with Hasp & Staple locks



Locker Room Design - introduction

There are many factors to be taken into account which will influence the design & layout of a locker room and the type of lockers to be used.

This section presents information and guidelines to assist in the planning and design of useful and workable locker rooms.

It is recommended that thorough, detailed plan and elevation scaled working drawings are used to ensure that all factors influencing the type, layout and positioning of lockers are identified with the customer and incorporated into the final design.

Lack of space or limited resources may often make the 'ideal' locker room or locker area hard to achieve but wherever possible, the following essential criteria should be met:

- Good all-round pedestrian access to, from and around the lockers is maintained, with aisles between runs of lockers at least 900mm wide, and preferably 1000mm
- The right size and number of compartments are available for users, set at the right height - refer to page H3
- The area should be well-lit at all times

Locker Room Design - requirements for usage

Consider the following at the initial planning stage:

Consider the following at the initial planning stage:

- How many people in all have a requirement for a locker?
- Do people require their own personal locker or can the lockers be shared? - for example, to cater for shift workers
- When will the lockers be used? - are they required on a regular daily basis, or infrequently?
- Accessibility: what would be the maximum number of people requiring access to the lockers at any one time? - is additional space required to prevent overcrowding at 'peak times' - during the changeover of work shifts, for example
- What kinds of items of clothing, equipment, personal possessions or carrying bags will users bring into the locker room? This will help determine the size of compartment/s required and also the locker and floor spacing - for example, where bulky clothing or equipment is involved, more floor space may be necessary for ease of movement

- What kind of access and 'ownership' is required for the lockers? this will influence the type of lock used: where an individual has their own locker, a cam-lock or padlock can be fitted, operated by the owner's key; where lockers are for shared use, coin or token-operated locks may be preferred as easier to administer
- What degree of privacy is appropriate? - people may need to change their clothes, in part or in full
- Is there a requirement for seating?
- Is there a requirement for 'shared' clothes hanging facilities within the locker room?

Locker Room Design - features of the locker room or area

The size, location, fixtures & fittings of the area or room designated for the lockers will affect the positioning and layout of the lockers. Take into account the following:

- Is the room or area large enough to accommodate the number (and size) of lockers required, whilst still leaving enough space for users to have easy access?

Note: ensure that the space is not confined, making the lockers awkward or uncomfortable to use, and the room potentially hazardous in an emergency evacuation situation (in response to a fire alarm, for example)

- Is the room or area accessible to groups of people who may all arrive at one time? Are any adjacent corridors, stairs or lifts easy to get to and move through?

Is the room readily accessible for delivery and installation of the lockers?

- Take into account the position of doors and windows and their effect on the locker layout
- Note the position of fixtures and fittings which could either obstruct the lockers or be obstructed by them.

For example: ceiling pillars, low ceilings, alcoves, beams, skirting boards, radiators & heating pipes, light switches, sockets and other

power outlets, lighting fixtures, ventilators and airconditioning units, any access or service points

Where the effectiveness of the locker layout is compromised by such obstructions, seek the customer's agreement to remove or relocate them wherever it is practicable.

- Check the condition of the floor - *What is it made of? Is the surface suitable and in good condition? Is it level: lockers should always be located on a level, even floor. If there is significant slope, consider locating the lockers on support frames with adjustable feet*
- How are the floors cleaned? Even in a generally 'dry' changing area, the floor may be washed or mopped down from time to time. *Where floors may be left damp for some time and on a regular basis, consider raising the lockers from the floor on a support frame*
- Assess the lighting - *ill-lit locker rooms can appear oppressive and unwelcoming. Carefully assess the positioning of lockers and their effect on lighting - avoid creating areas of dark or shadow in the room, particularly in corners. If there is natural light, make the best use of it. How is the artificial light provided? Will it conflict with the locker layout? If so, can the lighting be altered or the locker layout changed?*

Product Handbook for **Standard Steel Lockers**

Section H - **Locker Room Design & Layout**

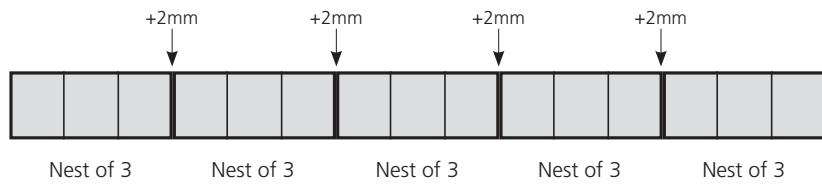
Overall Dimensions

Overall heights, widths and depths for all steel locker types are provided in sections D & E - 'Configurations'.

Note: When planning a locker room layout, allowance should also be made for the incremental increase in the overall length of runs locker runs, where nested units are butted together.

2mm is added to the overall length at each point where two nested units join together (refer to example illustrated, right).

Locker Nesting - overall run length dimension (plan view)



Example: run of 15 locker units, 300mm wide, in 5 nests of 3.

Overall run length calculation:

$$5 \times 900\text{mm} + 8\text{mm} (4 \times 2\text{mm, nested units join at 4 points}) = 4508\text{mm overall}$$

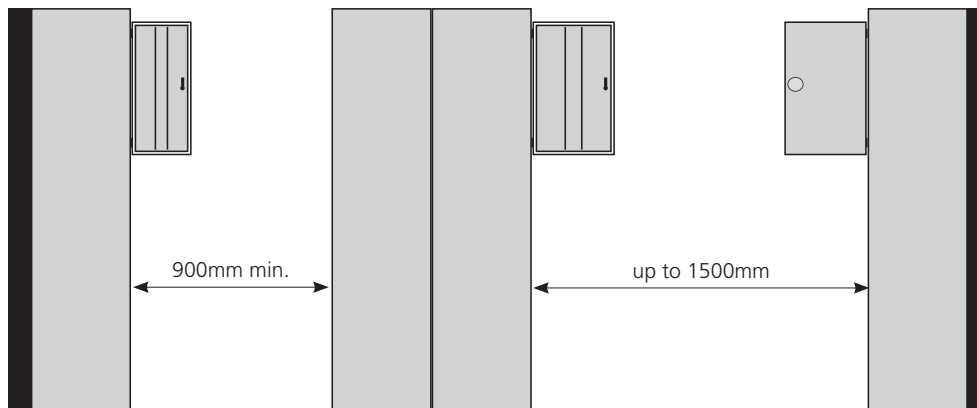
Locker Run Spacing

Lockers standing on the floor should be positioned so that there is a clear space or aisle at least 900mm wide - but preferably 1000mm - between the locker fronts and the opposing fixture - this could be a parallel run of lockers, or a corridor wall.

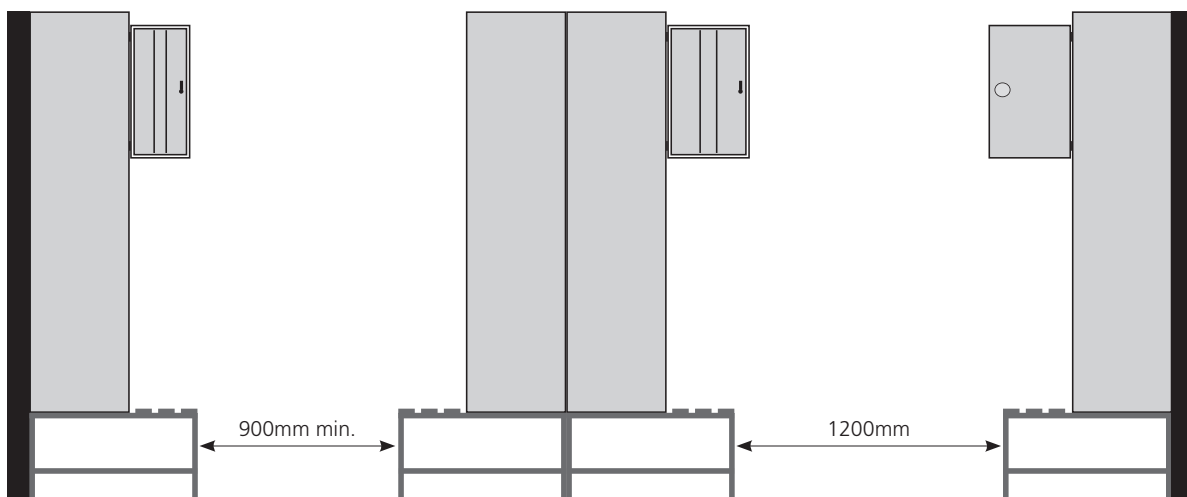
Always allow clearance for wide-open doors - this varies according to the locker width.

Lockers standing on support frames fitted with a seat should have a minimum aisle width of 900-1000mm, but a spacing of 1200mm is desirable if facing lockers are to be used simultaneously.

Where space is available, the width of the aisle can be increased up to 1500mm where facing lockers are likely to be used simultaneously.



Lockers standing on support frames fitted with a seat should have a minimum aisle width of 900-1000mm, but a spacing of 1200mm is desirable if facing lockers are to be used simultaneously.



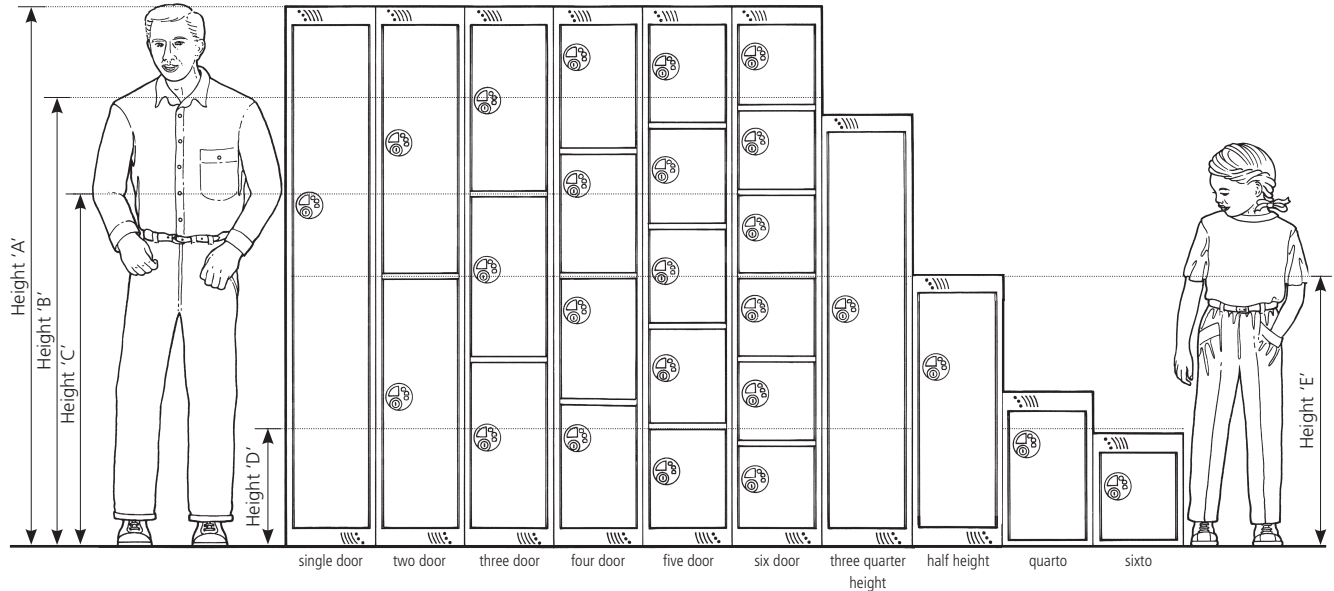
Locker to User Height Relationships

Lockers should be specified and installed so that the compartments are within easy and comfortable reach of users.

For health & safety, it is recommended that care is taken to avoid placing compartments where users have to stretch or overreach to use them. This is particularly important when lockers are placed

on support frames which can raise the usable height of the lockers significantly.

For school use, ensure that the lockers specified have compartments within the height range of the user age group. The scale illustrations below provide height comparisons.



Height 'A' = 1800mm (5ft. 11ins. approx.)

Height 'B' = recommended lifting weight at average shoulder height, with arms at full reach: women 4kg, men 7kg

Height 'C' = recommended lifting weight at average elbow height, with arms at full reach: women 8.5kg, men 12kg

Height 'D' = recommended lifting weight at average mid-lower leg height, with arms at full reach: women 5.5kg, men 7.5kg

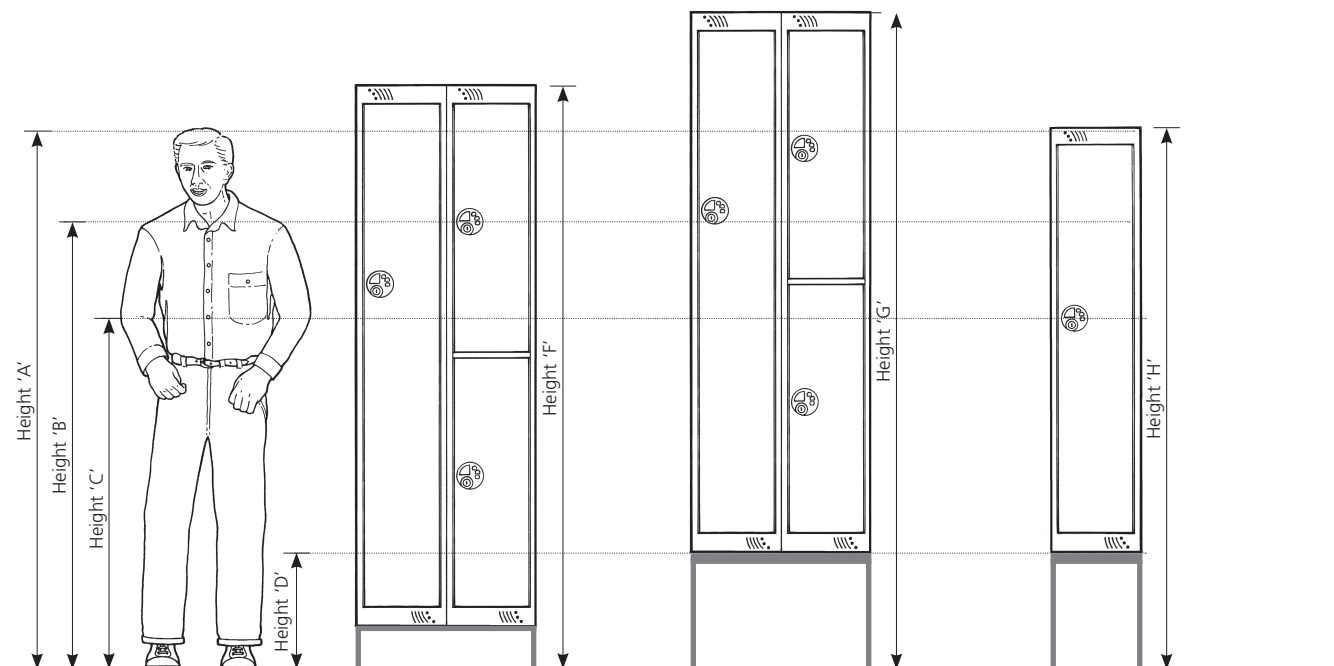
NB: weights quoted are for risk assessment only, not safe lifting limits

Height 'E' = 900mm (3ft. approx.)

Height 'F' = lockers on support frame, 1955mm overall (with fixed foot caps)

Height 'G' = lockers on seat support frame, 2205mm overall (with fixed foot caps)

Height 'H' = three-quarter height locker on seat support frame, 1790mm overall (with fixed foot caps)



Product Handbook for **Standard Steel Lockers**Section J - **Installation****Installation - recommended method statement**

Installation of lockers should only be undertaken by suitably trained and equipped, competent personnel who are familiar with the product and know how to handle and install it.

- Lockers are delivered to site shrink-wrapped and with additional protective cardboard packing as required.
- Lockers should be unloaded and moved into the location building using handling equipment - trolleys or hand trucks - to minimise lifting and carrying hazards.
- Lockers to be distributed to the appropriate room/s and positioned according to the layout drawing.
- Installers should adhere to good health & safety practices at all times, including any instructions specific to the site.

Personal protective clothing (i.e. footwear with steel toe-caps, hi-visibility jackets, hard hats) should be worn where and when appropriate.

- Work should be carried out in a safe, efficient manner and it is the responsibility of installers to take necessary precautions to minimise the risk of injury to themselves and others.
- For practical and safety purposes, lockers should not be used until after completion and hand-over to the client.
- Lockers or other components which are left to be installed on following days should be stored safely and securely.
- Electrical equipment including power tools should be either battery operated or maximum 110V.
- All waste material - including packaging and any spare fixings or other components - should be disposed of in an appropriate manner and the completed lockers and surrounding area left in a clean and tidy condition.
- Completed installation work should be inspected by the client or a supervisor and written approval obtained.

Installation - recommended fixing methods for lockers**Fixing Lockers In Position**

- Due to their narrow height to depth ratio, wherever possible lockers should be secured to ensure stability.
- Single locker nests should ideally be fixed back to a wall.
- Runs of lockers should be fixed together side to side and then fixed back to a wall or back to back to another run of lockers.
- Lockers mounted on stands or stand seats should be fixed down to the stands/stand seats as well as side to side and back to a wall or other run of lockers - refer to page F5.

Methods of Fixing

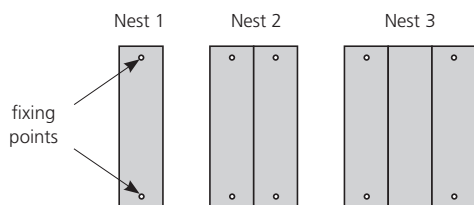
- Nested lockers are either riveted or bolted together. If available, rivets are the recommended fixing in most situations.

Fixing Locker Nests Side to Side

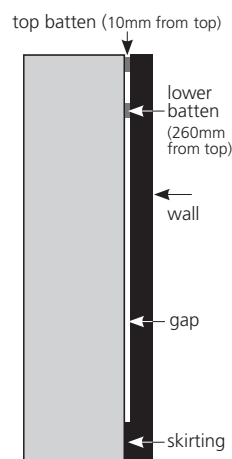
- 4 x rivets/bolts should be used, 2 at the top (front and rear) and 2 at the base (front and rear) per pair of adjoining lockers. Fixings at the front of the lockers should be made wherever possible through the door-frame.

Fixing Lockers Back to Back

- Fix through existing holes at top and bottom centre of the rear of the locker, using 2 fixings for a single locker, 4 fixings for a nest of two, 4 fixings for a nest of three.

**Fixing Lockers Back To A Wall**

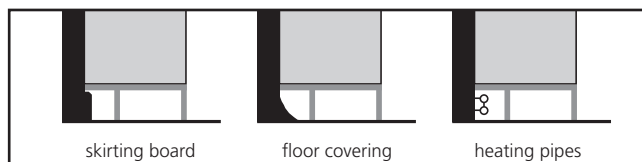
- Wall sited lockers should be fixed back to the wall as well as side to side. Lockers can be fixed directly onto walls or on to wall-fixed timber battens. Timber battens should be used on irregular wall surfaces or where the lockers are positioned in front of a skirting board, leaving a gap between lockers and wall. The top batten is used to prevent items falling down the back of the locker. The lower batten is used to secure the locker back to the wall.



- The numbers of fixings and the fixing holes used are the same as for back to back installation.

Note: Wall fixing plugs should be suitable for the wall construction – i.e. for solid or hollow walls, with no.8x1" wood screws with flat washers, or similar used as the locker to batten fixing.

- Where the siting of lockers against a wall is impeded by the presence of skirting boards, floor coving or central heating pipes, stands can be used to raise the lockers clear of the obstruction. The rear leg of the stand can be inset to avoid the obstruction - refer to illustration below and to page F5.

**Locker Maintenance**

- Cleaning - standard steel lockers have a high-quality paint finish and under normal use, all that is required to keep lockers in good condition is an occasional wipe with a duster or soft cloth with a proprietary spray polish if required.

Do not use solvents as this may cause deterioration in the level of protection afforded by the paint finish.

- Lockers should be cleaned regularly and checked for signs of wear and damage.
- Damaged doors and locks should be replaced as soon as possible as the security of the locker may be compromised. Replacement doors, locks and keys are available on request.

This handbook serves as a product guide to Whittan Standard Steel Lockers for use in standard configurations.

The illustrations, descriptions, load data and other information contained in this manual were accepted as correct at the date of publication.

However, Whittan reserves the right to make any necessary changes, in line with product development and improvement.

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