

External walls

External walls are of a durable one-piece construction. High-performance, low-maintenance, plastisol-coated, galvanised steel cladding offers protection against fire, extreme weather and accidental damage. Internally, the walls are of a polyester-coated galvanised steel, providing an impact resistant, wipe clean finish.

Floor

The floor has a rigid galvanised steel frame and an aluminium-zinc coated steel sheet underdrawing, which offers a sturdy and robust feel. The design also prevents infestation as the thermal insulation material is laid on top of the underdrawing. The suspended floor is completely integrated into the structure of the building. This enables the building to be sited close to the ground for one-step easy access. A variety of floor coverings is also available including hard-wearing vinyl or carpeting, depending on the application of the building.

Roof

Outstanding insulation is provided by the construction of the roof. The roof deck is of one-piece construction and is impact resistant. It is covered with solar-reflective, profiled plastisol-coated, galvanised steel to reduce heat gain. Internally, the ceiling is designed to prevent condensation problems. It is covered with the same polyester steel as the walls for a low-maintenance finish.

Doors and windows

Steel-faced doors have an insulating core that minimises heat loss. The anodised aluminium frame also incorporates draughtproof weather seals. Protection against theft and vandalism is given by a cylinder mortise lock, which has escape override on the inside. A low-level threshold improves access and can help you to comply with the Equality Act (2010).

Both the fixed and opening windows have distinctive square cornered aluminium frames and polyester powder coated paint finish. Opening windows have lockable handles with keys.

The windows are fully double-glazed for excellent thermal and acoustic performance. Tinted glazing reduces solar glare and a thermal break prevents condensation problems.

Building layout

A variety of room layouts can be achieved by the installation of partition walls, with a matching polyester steel finish. Portakabin Solus buildings can be linked to form larger complexes.

Foundations

Portakabin Solus buildings are quickly and easily sited. The need for pad foundations is dependant on site conditions, total weight of the building and the imposed loads. Advice on foundation loads and positions will be given by Portakabin staff.

Structural integrity

Peace of mind is guaranteed by the high levels of all-round performance achieved by the Portakabin Solus building series. It has been independently assessed by the British Board of Agrément (BBA) and awarded a BBA certificate confirming that it meets relevant requirements of The Building Regulations (England and Wales), The Building Standards (Scotland) Regulations and other permanent building standards and codes of practice. In addition, Portakabin also offers a 5-year product and a 30-year structural warranty on all new Portakabin Solus buildings. The Portakabin Solus building series has been designed and manufactured in the UK under a Quality Management System meeting the requirements of ISO 9001.

Design loads

Floor: 3.00kN/m²

Roof: 0.75kN/m²

Basic wind speed

(To meet requirements of BS 6399: Part 2)

Thermal insulation

The walls, doors and roof are insulated with environmentally friendly CFC-free Envirofoam: a rigid polymer insulation material that is lightweight and yet enhances long-life structural strength and ensures an energy-efficient building.



Insulation values

The walls, doors and roof are insulated with environmentally friendly CFC-free Envirofoam: a rigid polymer insulation material that is lightweight and yet enhances long-life structural strength and ensures an energy-efficient building.

Elemental U-values (W/m²K)

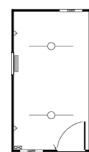
Floor: 0.35 Walls: 0.59 Roof: 0.42

Fire performance

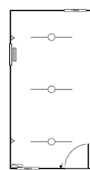
Fire-engineered construction ensures safe fire performance. Non-combustible materials are used for all external cladding and internal lining of walls and ceilings; minimising the potential fire load. Walls, ceilings and floor underdrawing have Class O surfaces. Roof decks have a British Standard FAA rating. The floor has half-hour fire resistance in multi-storey mode.



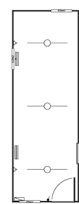
7.28m²



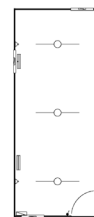
12.46m²



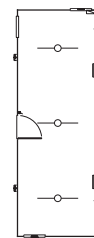
17.18m²



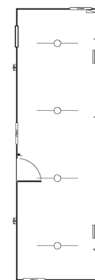
18.68m²



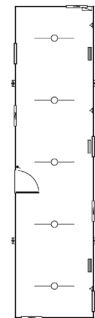
21.32m²



24.87m²



29.60m²



35.52m²

Climate control

A variety of heating, ventilation and air-conditioning systems can be provided for the enhanced comfort of occupants.

Transport and handling

Portakabin Solus buildings are transported by lorry and craned into position.

All buildings have, as standard, provision for low-level lifting. Low-level lifting supports

The Work at Height Regulations 2005 to avoid the increased safety risks associated with working at height.

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Registered company number 685303. 207/06/18.

Portakabin Solus	SL031	SL051	SL062	SL071	SL072	SL082	SL102	SL122
External length - foot (m)	3.042	5.042	6.042	7.442	7.442	8.642	10.242	12.242
External length - leg (m)	3.104	5.104	6.104	7.504	7.504	8.642	10.242	12.242
External width - foot (m)	2.836	2.836	3.202	2.836	3.202	3.266	3.266	3.266
External width - leg (m) #	2.994	2.994	3.360	2.994	3.360	3.360	3.360	3.360
External height - foot (m)	2.610	2.610	2.610	2.610	2.610	2.610	2.610	2.610
External height - leg (m)*	2.573	2.573	2.573	2.573	2.573	2.573	2.573	2.573
Foot centres - length (m)	2.653	4.652	5.652	7.052	7.052	4.880	5.700	6.100
Foot centres - width (m)	2.691	2.691	3.058	2.691	3.058	3.058	3.058	3.058
Leg centres - length (m)	2.854	4.854	5.854	7.254	7.254	4.880	5.700	6.100
Leg centres - width (m)	2.810	2.810	3.176	2.810	3.176	3.176	3.176	3.176
Internal length (m)	2.808	4.808	5.808	7.208	7.208	8.408	10.008	12.008
Internal width (m)	2.592	2.592	2.958	2.592	2.958	2.958	2.958	2.958
Ceiling height (m)	2.300	2.300	2.300	2.300	2.300	2.300	2.300	2.300
Foundation to floor level - foot (m)	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207
Foundation to floor level - leg (m)*	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165
Floor area (m ²)	7.280	12.460	17.180	18.680	21.320	24.870	29.600	35.520
Empty building weight - foot (kg)	1010	1494	1954	2078	2338	2687	3136	3320
Empty building weight - leg (kg)	1094	1578	2038	2162	2422	2771	3220	3404
Lifting dimensions - foot:	Consult Portakabin Limited - purpose designed lifting equipment							
Lifting dimensions - leg:#	4.98	6.09	6.83	7.61	7.71	6.24	6.74	6.98
Effective working length of webbing sling (m) (max. 90° between diagonally opposite webbing sling legs)								
Effective working length of sling (max. 120° between diagonally opposite sling legs)	4.46	5.37	5.97	6.61	6.69	5.49	5.89	6.09
Lifting dimensions - leg:#	4.55	5.33	5.86	6.41	6.49	5.44	5.80	5.96
Minimum hook height from foundation level (m) (max. 90° between diagonally opposite webbing sling legs)								
Minimum hook height from foundation level (max. 120° between diagonally opposite sling legs)	3.70	4.16	4.46	4.78	4.82	4.22	4.42	4.52
Maximum handling weight (kg)**	2165	2650	3205	3330	3590	3925	4370	4600

Note: all dimensions shown in mm. * Lodastrut legs fully retracted. # Includes low level lifting facility. ** When handling by crane or the Lodastrut leg system.