Portakabin Duplex®2

BOROUGH OF WORTHING
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TECHNICAL INFORMATION

The *Duplex* building system offers an attractive accommodation solution for buildings of up to three storeys with unlimited floor area. It creates an attractive and comfortable workspace with flexibility for the future.

Walls

External walls are of a durable one-piece construction with high-performance, low-maintenance plastisol steel cladding to offer protection against fire, extreme weather and accidental damage. Internally, the walls are of vinyl faced/emulsion painted gypsum wallboard, providing a wipe-clean finish.

Floor

The patented floor has a rigid galvanised steel frame and underdrawing, which offers a sturdy and robust feel and also prevents infestation. A suspended floor is completely integrated into the structure of the building. A variety of floor coverings are available, depending on the purpose of the building, including hard-wearing vinyl or carpeting.

Roof

Outstanding insulation is provided by the patented construction of the roof. The roof deck is of one-piece construction and is impact resistant. It is covered with solar-reflective, profiled plastisol steel to reduce heat gain. Internally, the ceiling is designed to prevent condensation problems. It is covered with polyester steel 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 a thermal break and draughtproof weather seals. The windows have double glazed, powdered-coated aluminium frames and are top hung. A thermal break prevents condensation problems and draughts are minimised by effective weather seals. *Duplex* buildings also offer protection against theft and vandalism, with a wide range of security options.

Building layout

The *Duplex* building system uses complete modules to construct buildings with unlimited floor area. Additional storeys may be added at any time (to a maximum of three) if the appropriate foundations have been laid. A variety of room layouts are achieved by the installation of partition walls.

Structural integrity

The high levels of all-round performance achieved by the *Duplex* building system guarentee peace of mind. It has been independently assessed by the British Board of Agrément (BBA) and was awarded a BBA certificate confirming that it has been designed to meet the requirements of The Building Regulations, The Building Standards (Scotland) and other permanent building standards and codes of practice applicable at that time. Quality systems have been assessed to meet the requirements of ISO 9001.

Portakabin
Quality - this time - next time - every time

For more information, please call
0845 355 0350
(Price of a local call)

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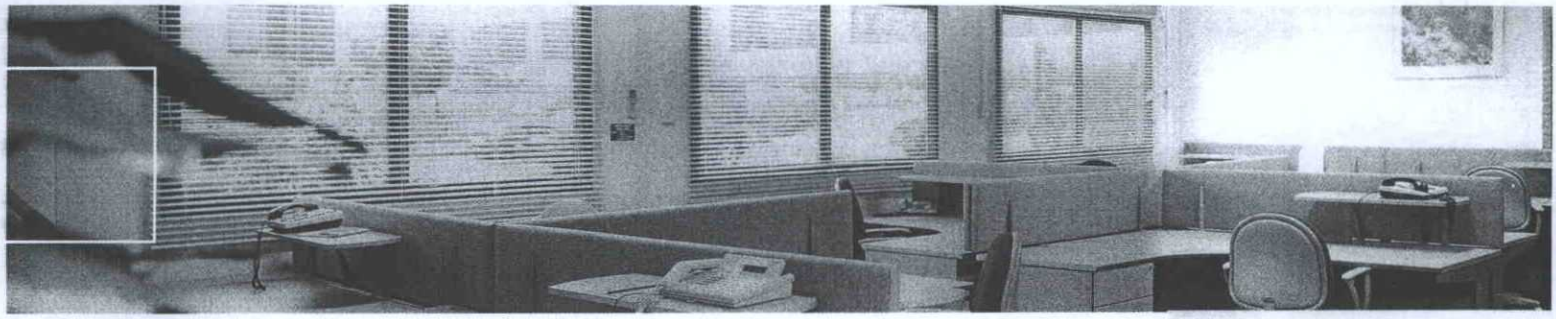
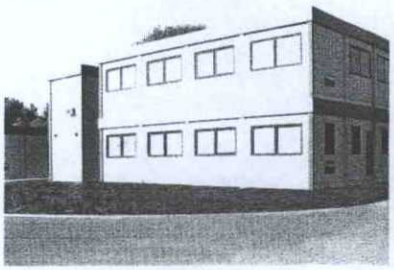


Design loads (kN/m²)

Floor 3.00* Roof 0.75 Basic wind speed 50m/s (CP3: Chapter V: Part 5)

*DX040 modules will require an additional foundation support.



Thermal insulation

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

U - values (W/m²K) Floor 0.28 Walls 0.43 Roof 0.38

Fire performance

Fire-engineered construction ensures safe fire performance. Non-combustible steel is used for all external steel cladding and ceilings, minimising the potential fire load. Walls, ceilings and floor underdrawing have Class O surfaces, roof decks have an FAA rating. Walls and combined roof and floor can have up to one-hour fire resistance.



Climate control

A variety of heating, ventilation and air-conditioning systems are provided to meet climate demands.



Foundations

Portakabin staff will provide advice on the type and size of foundations required for *Duplex* buildings.

Transport and handling

Duplex buildings are transported by lorry and are craned into position. Crane handling is facilitated by lifting eyes at the module corner, using a four-leg sling. *Portakabin* staff will provide full advice on the procedure.



For detailed technical information and the full range of *Duplex* building options, call your local *Portakabin* Hire Centre on: **0845 355 0350.**