iMpero pocket fire doors FD30

In the UK there is an increasingly stark requirement for high quality housing, however, as population densities increase and average property sizes decrease, the need to develop innovative ways of utilising the finite space available is facilitating the development of new products and solutions.

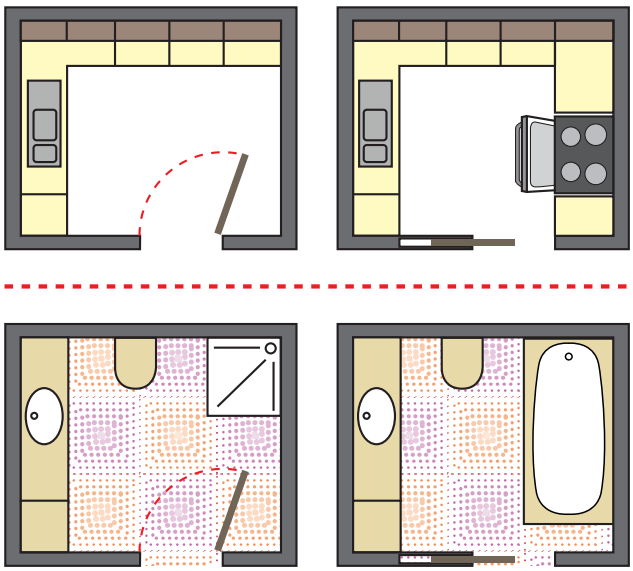
The iMpero pocket door system is ideal where design flexibility and space saving are of prime importance. Being able to slide a kitchen, bedroom or bathroom door within a wall and out of the way saves about 6% of the overall floor area or 10 sq ft per door.

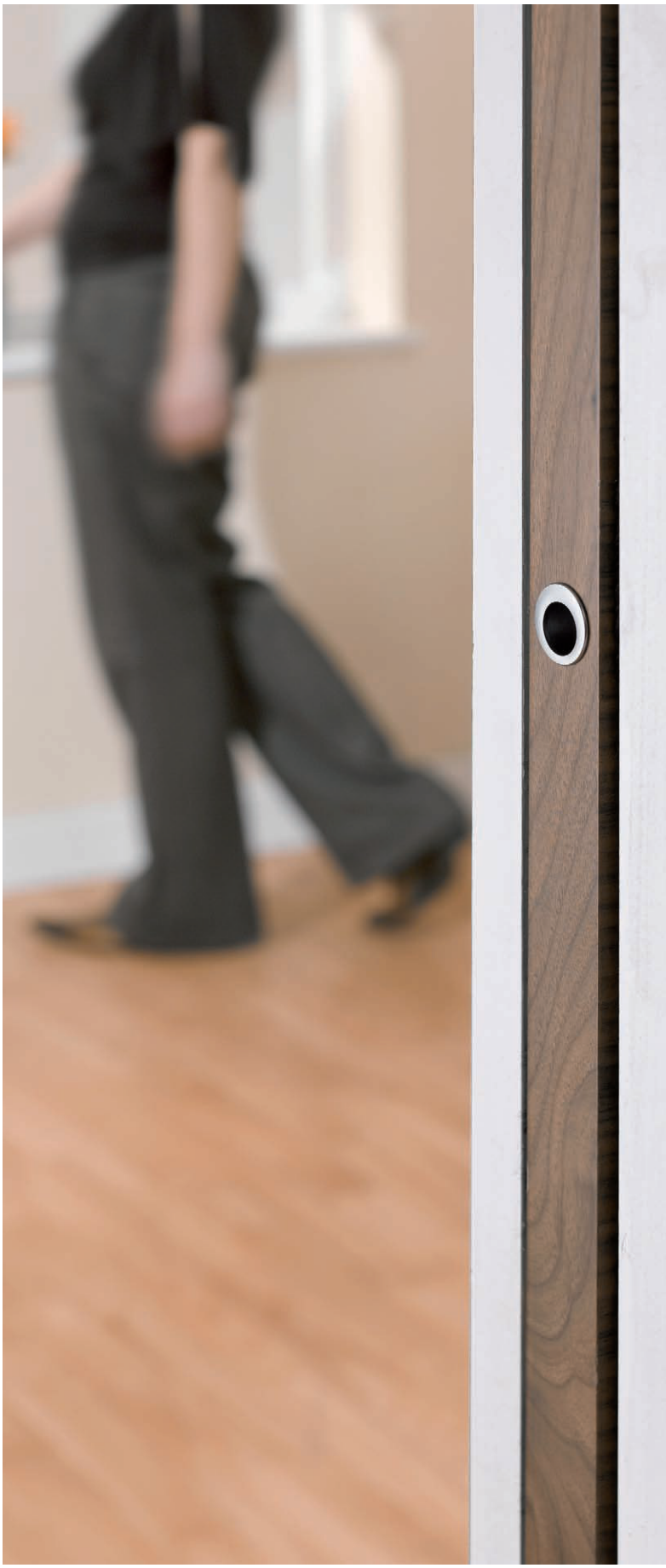
Designed and produced in the UK, the iMpero pocket door system comprises the latest sliding door technology, quality robust components and an exceptionally easy installation.

With iMpero, specifying pocket door options is easy. Any standard timber door blank or frameless glass panel can be used and there are no bottom rails mounted into the flooring creating a dust trap or trip hazard. Door leaves are held in place to prevent wobble or sway. High quality rollers and bearing surfaces will provide years of maintenance free service and consistent high performance.

Typical iMpero pocket door installations

- A single door leaf (e.g. a kitchens or bathrooms)
- Two doors converging/bi-parting (e.g. as lounge/dining room dividers). These can also be opened/closed simultaneously.
- Large leaves can be used as screens to separate bedroom & living areas and facilitate flexible/open plan schemes whilst allowing users to maintain privacy when needed.





EASE of use & Accessibility

Reducing barriers

For most people, opening a manual door is a combination of gripping and depressing a lever handle, pulling/pushing whilst 'side stepping' the arc of the door and then moving forwards or backwards with the door.

To carry out this exercise is much harder if the user has, for example, poor grip, reduced muscle power and balance. Getting close enough to, or reaching for, the handle can be difficult. Harder again, if one has to move ones body or mobility aid out of the path of the door as one is trying to open it, and indeed hold it open whilst trying to pass through.

This is compounded, yet again if the hands are needed to hold a cane or crutches, move a wheelchair or frame. Other factors increasing the degree of difficulty include door closers, small lobbies, narrow corridors and small clear opening widths.

Little wonder that, to many people – a door is a significant barrier.

The iMpero pocket door system reduces some of the typical swing door barriers presented to disabled people, thereby making buildings and dwellings more independently accessible or 'inclusive'. These benefits are evident in several areas:

Clear opening widths

iMpero door width options give access to the full range of wheelchair users as defined by the BS 8300. The 'wide' option is especially good for 90° turns for larger wheelchairs, assistant pushed and battery power chairs – important because a minimum statutory corridor width is 1200mm in buildings (900mm in dwellings) and a wheelchair/scooter can be 1520mm to 1600mm long. The 'standard' 626–926 width option can also be useful for ambulant disabled people with limited reach due to the comparatively small movement required to operate the door.

Sliding leaf

When opening/closing the door leaf slides into a pocket. It does not swing into the space adjacent to the door face, thereby allowing:

The user to remain stationary whilst opening the door, avoiding having to move him/herself and his/her mobility aid beyond the leading edge of a swinging door leaf.

Providing an alternative solution to the AD 'M' requirement for WC compartment doors, (and doors to wheelchair-accessible sanitary provision), to open outwards in an emergency. If a user collapses behind the door, it can simply be slid open.

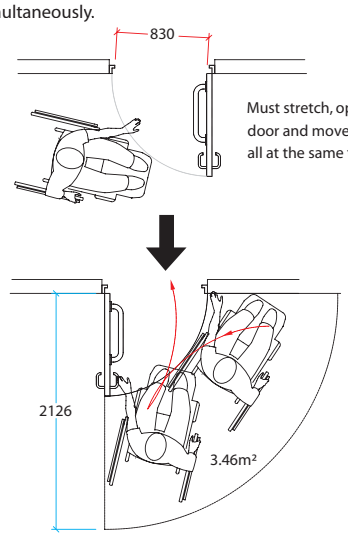
Avoiding door projection into adjacent corridor circulation or escape routes.

User Operation

For manual use of the iMpero door it is recommended to leave a portion of the door leaf proud of the pocket (in the fully open position) and the use of projecting handles. This arrangement has the duel benefits of the easily opened pocket door and easily operated door furniture, for e.g. those with dexterity problems. For guidance on laying out for this type of door-set please contact the sales office.

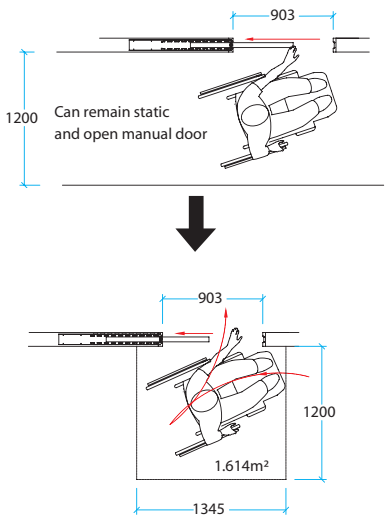
Standard door

A minimum of 1.85m2 additional floor area is required for a standard indoor manual wheelchair. User must be able to operate the door and manoeuvre chair simultaneously.



Pocket door

Wheelchair can remain stationary during door opening.



THE BENEFITS of installing an iMpero pocket door system

The iMpero proposal is unique. A patented design uses the latest developments in materials engineering in a combination that maximises wall and cassette stability, provides for easy flexible installation and unrivalled aesthetic detailing.

- The iMpero cassette is constructed from specially designed 'Z' section profiles. As any architect or engineer knows, strength is best derived from a materials profile.

  The iMpero sections slide within each other to provide not only a flexible width cassette but one which is also easily height adjustable.

- The iMpero track mounting unit is constructed from timber laminate which reduces noise and vibration as opposed to traditional metal profile sections which often result in a "tinny" tactile experience.

- White aluminium track provides for a discreet aesthetic finish, further reducing the impact of the door-set. This is of particular use when installing full height doors fitted flush with the ceiling.

- The unique track profile incorporates trolley stabilising ridges within the design.

- Die cast roller bodies are light and strong. Delrin wheels incorporate a ball race for exceptionally fluid motion. Delrin covered wheels offer high tensile strength, impact resistance and exceptional fatigue endurance. Delrin resists moisture, solvents and potentially damaging atmospheric conditions, it also maintains its natural lubricity throughout its life.

- Bespoke timber door lining profiles are moulded from Poplar, sourced from sustainable suppliers. Poplar is a highly stable and readily available hardwood with few imperfections. Poplar can be very accurately moulded in long lengths, ideal for tall elevations.

Standard Specifications

- Door leaves up to 2700mm high as standard
- Individual door leaf widths up to 1500mm
- Individual door leaves of up to 80Kg
- Timber/framed door leaves up to 44mm thick or frameless glass 8–12mm thick



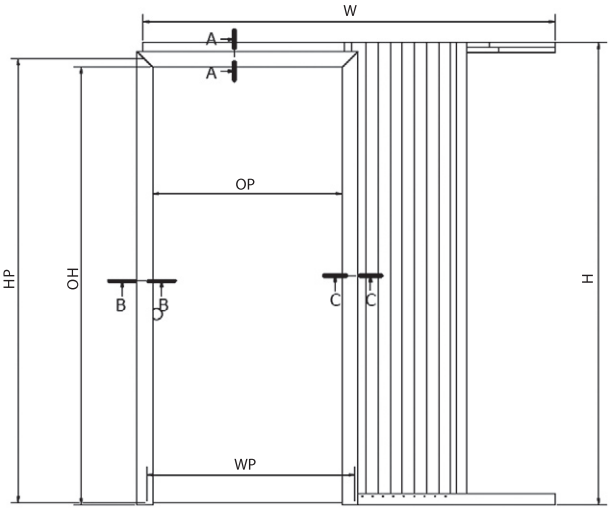
iMpero kits for FD30 applications

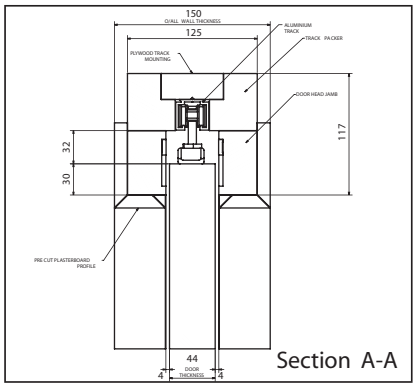
iMpero is unique in it's ability to provide a system that is certified for use with FD30 door leaves. The iMpero FD30 system allows for an approved* single door leaf of up to 2700mm high and 1400mm wide to be installed, and any standard FD30 44mm thick door leaf up to 2440mm high and 1220mm wide. This unique assembly opens up new opportunities to create innovative designs and room layouts. Freedom of choice allows once again for a consistent aesthetic with other doors in the vicinity.

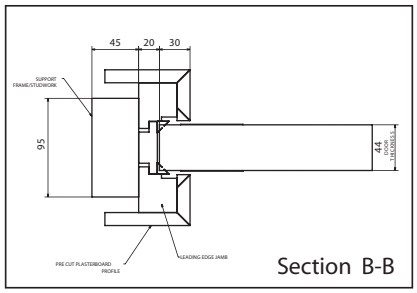
Bespoke profiled timber door linings come complete with intumescent fire seals and pre-cut and formed plasterboard sections to be wrapped around the sub-frame, all providing exceptional fire integrity.

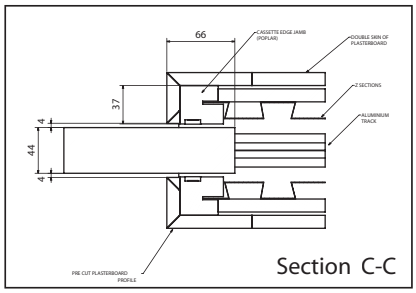
*Kits using standard FD30 Door leaves over 2440mm high and 1220mm wide must incorporate a specific door leaf construction to comply with the scope of certification, please contact the sales office for further information.

If fitting with a self closer please contact the sales office for installation guidance.









Dimensions (max door thickness 44mm)	
Single Door	
Wp = Door panel width	Sp = Wp-9mm
Hp = Door panel height	Op = Wp-95mm
W = (2Wp)-20mm	Oh = Hp-35mm
H = Hp+95mm	

Single door kits (only)

Standard door leaves (up to 2100mm high)

Description	Part No
Standard width door leaf	
626–926mm wide	iM800
Intermediate width door leaf	
927–1300mm wide	iM801
Wide door leaf	
1301–1500mm wide	iM802

Tall door leaves (up to 2700mm high)

Description	Part No
Tall door leaf	
626–926mm wide	iM803
Tall/Intermediate width door leaf	
927–1300mm wide	iM804
Tall/Wide door leaf	
1301–1500mm wide	iM805


APPROVED
FD30 POCKET DOOR