

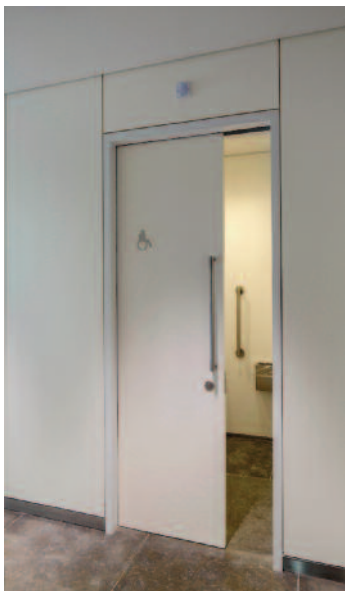
## Accessible doors

Legislation and building regulations require reasonable provision in both new and existing buildings to make them accessible to everyone. Design and specification of doors and doorsets for accessibility must take into account factors such as clear widths, maximum opening forces, correctly positioned glazing to provide through visibility, suitable ironmongery for ease of use, and visual contrast.

See our website or consult our technical department for information on accessibility legislation and standards.

- Shadbolt can supply purpose-made accessible doors with the same construction and performance as our standard doors.
- Wider doors can be made without loss of performance.
- Various alternative opening arrangements where space is limited, such as sliding or folding doors.
- The same stability and mechanical performance as our standard doors.
- If required, the same fire and acoustic performance.
- Vision panels can be fitted without loss of performance.
- SpaceSaver doors have an offset folding action which requires less opening space and so provides more flexibility in layout where space is restricted (see overleaf for more information).

## Construction, sizes, appearance



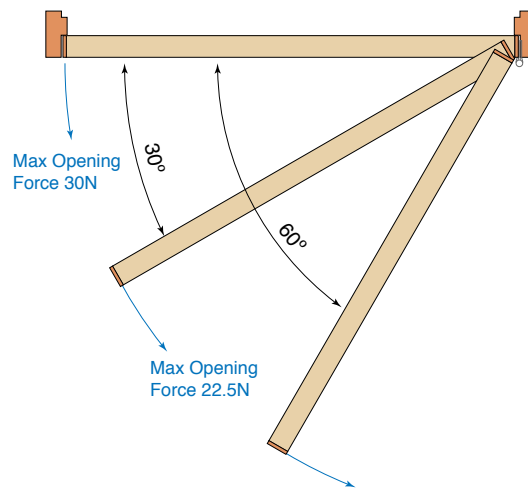
Door construction, size range and finishes for hinged accessible doors are generally the same as for our standard doors. See other brochures or our website for more information.

## Door operation/fire door closing

Fire doors are normally required to include a self-closing mechanism to ensure they will perform their function in case of a fire. The closing mechanism must be strong enough to close the door against any smoke seals (and acoustic seals if fitted) and, where appropriate, latch it. But opening a door against the force of such a closer can be difficult for many people including disabled and infirm, those in wheelchairs or with walking aids, with young children, with luggage, hospital trolleys etc. The requirement for reliable closing and ease of opening can be difficult to achieve in practice.

In such cases the initial force required to open the door is likely to exceed the maximum of 30N set by Building Regulations Approved Document M for accessibility. Therefore, where doors are required to comply with Part M a powered opening/closing system will probably be necessary, see illustration below.

645 Part M Opening force requirements



To comply with Building Regulations for accessibility, the opening force at the leading edge of the door should be not more than 30N between 0° and 30° and not more than 22.5N between 30° and 60° of the opening cycle.

Controlled door closing devices should conform to BS EN 1154: 1997.

In some cases the selection of a high-efficiency door closer with suitable latch, hinges and seals enables the requirements to be met with a conventional (non-powered) closer arrangement. Alternative solutions include: A powered door opening and closing system controlled by various manual or automatic activation methods. Where the door can normally be left open, electro-magnetic hold-open devices with door release automatically activated by the fire alarm system.

### SpaceSaver folding doors

SpaceSaver doors have an offset folding action with a much smaller opening arc than a conventional door. This provides greater flexibility in layout design of disabled access, especially where space is limited. Wider doorways can be provided even in restricted spaces, giving easier access for both wheelchair users and ambulant disabled persons. Extra space around the door minimises obstruction when open, eg in corridors and lobbies, and where there are sets of doors close together.

- Easy to operate.
- Standard robust and stable leaf construction.
- Supplied as a complete, fully finished doorset with frame, door gear and ironmongery.
- Doorsets are purpose-made and details can be varied to suit requirements.
- For WCs and bathrooms, non-vision features include a rebate at the hinge, and a frame slot for the door leading edge.
- For circulation routes, vision panels can be included.
- Available as FD30 door assemblies with suitable ironmongery (subject to project-specific assessment); refer to [technical@shadbolt.co.uk](mailto:technical@shadbolt.co.uk)

### Door construction

SpaceSaver door leaves have standard Shadbolt construction, with the necessary hinge and track hardware fitted. In addition ironmongery such as handles, latches, locks, indicators, and door closers can be fitted as required.

### Sizes

SpaceSaver door leaves are purpose-made to sizes required. Consult Shadbolt for confirmation of available sizes before specifying. Maximum sizes for latched door assemblies are as follows:

Main leaf - 2100mm x 900mm

Side leaf - 2100mm x 450mm

629 SpaceSaver offset hinged doorset, non fire rated: opening method

