



# Operating & Maintenance

## Orca doors: Opero

### General specification

Orca door leaves are constructed from 44mm and 54mm high performance solid particleboard core. Door leaves are covered with a 0.6mm High Pressure Laminate (HPL), with exposed lippings finished with a lacquer containing an antibacterial agent.

The doors are supplied with a solid casing frame, finished in a lacquer containing an antibacterial agent, or with a protective PVC wrapping, and with the frame having an integral stop. The doors are hung on 3 number hinges where required.

### Fire resistance

Tested to BS 476: Part 22 1987 by Chiltern International Fire Ltd.

Orca doors can be offered as a door or doorset, and can be supplied non-rated, or with a FD30 or FD60 rating.

### Over panels

Over panels and side panels can be accommodated with the doorset. These will be detailed and assessed during the quotation of a door set to ensure the correct configuration is adopted to meet the criteria for fire rating.

### Lippings

All Orca doors will be supplied with hardwood lippings, unconcealed, painted, and square, rounded or rebated. Doors will normally be supplied with lippings to both vertical and horizontal edges.

### Door frames

Softwood or Hardwood: 70mm x 32mm section. Minimum density 450 kgs/m<sup>3</sup>. MDF 70mm x 30mm section  
Minimum density 700 kg

Softwood frame are not permitted for 60 minute doors.

Orca door frames are supplied unfinished, or with a primer coating only.

### Intumescent & smoke seals

All necessary fire and smoke seals are included.

All factory fitted hinges, locks/latches, strike plates and floor spring accessories will be protected with Intumescent gaskets. Any ironmongery not factory fitted will require protecting with intumescent gaskets. For further advice please provide full specification of components.

## Glazing

Orca door sets are factory glazed, when specified, using clear laminated fire resisting glass in conjunction with intumescent materials. The glass is retained using a purpose-made, pin-fixed, hardwood splayed and rebated or square section glazing bead.

The maximum permitted glazed area per leaf must not exceed 1.75m<sup>2</sup> throughout the configuration range.

Apertures shape is unrestricted and may be in multiple or single paned form providing glazing is not less than 100mm from the door leaf edges, not less than 100mm from any door edge and not less than 80mm between apertures.

The Orca range of standard vision panel sizes and configurations have a reduced lead time.

## Ironmongery

An extensive range of ironmongery is permitted for use with Orca fire doors. Contact Orca Doors for details.

## Decorative Finishes

Finished with a 0.6mm High Pressure Laminate (HPL) both sides, pre finished and ready for use, and with a 40% sheen lacquer containing an antibacterial lacquer on exposed timber lippings and any beading.

## Size Adjustment

Door sets are manufactured to suit specific opening sizes and door leaves and any adjustment of door set sizes during installation may invalidate the fire rating status of the door set.

## Storage

Orca door sets should be stored within a carefully controlled environment similar in temperature and humidity to that intended for final use.

## Installation

See the Orca Doors installation instructions leaflet.

Installation instructions should be carefully adhered to in order that fire resistance is maintained.

Orca Doors can offer a fully certified fire door installation service if necessary.

## Environment

Orca door sets can be supplied with FSC chain of custody

## COSHH

In normal, proper use the product does not present any risks. However any attempt to machine or abrade the components in any way is likely to produce wood dust and risk assessments should be carried out. Furthermore, such modifications may invalidate the fire rating status of the door set and advice should be sought from Orca Doors.

The storage, installations and aftercare instructions issued by Orca Doors should be followed at all times. Specifiers and designers should refer to Approved Document M of the Building Regulations in order to ensure that features specified for the door sets will comply with the requirements of current legislation relating to access, especially for disabled persons.

## MSDS

Material safety data sheets for materials used in the production of Orca door sets are available on request



012

**Certificate Number**  
643

**Date of initial registration**  
22 November 2012

**Date of last issue**  
22 November 2012

**Date of expiry**  
21 November 2015

REGISTRATION CERTIFICATE



*The use of the accreditation mark indicates accreditation in respect of those activities covered by the accreditation certification 012*



**This is to certify**

**Orca Building Products T/A Orca Doors**

Limber Road  
Kirmington  
North Lincolnshire  
DN39 6YP

**Meets the requirements of**  
The BM TRADA Scheme for  
**Fire Doors and Doorsets to**  
**BS 476 part 22 or BS EN 1634-1**

Signed on behalf of BM TRADA Certification Ltd  
Vic Bowen, Chief Operating Officer

Chiltern House, Stocking Lane, High Wycombe, Buckinghamshire, HP14 4ND

Further clarification regarding the scope of this certificate and verification of the certificate is available through BM TRADA at the above address or at [www.bmtrada.com](http://www.bmtrada.com)

This certificate remains the property of BM TRADA Certification Ltd. To whom it must be returned on request.

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## Fire Door Maintenance

Fire doors are intended to facilitate a similar level of fire resistance as per the structural elements of a building. However, since doors are often opened and closed many times a day, it is important therefore for regular inspection be performed.

Fire doors should therefore be examined at six-monthly intervals as follows;

- Recommended clearance of 3 mm (between door and frame) along head, down sides
- Where applicable, any signs of damage, to glass or glazing system as the glass and glazing system are critical to the performance of the fire door.
- Fire and smoke seals (as maybe fitted) for any signs of damage, degradation or missing in part or total, as either of these will have serious implications on the fire door performance
- Hinges should be inspected for signs of wear. Worn hinges should be replaced with those that perform in accordance with the latest edition of BS EN 1935
- Ensure that (where fitted) the latch or lock furniture moves freely and engages fully. Damaged or badly worn latch or lock furniture should be replaced immediately
- Self-closing devices should be examined to ensure it closes the door leaf properly. The door should close effectively from any angle. There are a number of reasons why doors may fail to close
  - Check that there are no foreign bodies or other objects obstructing the door.
  - Check that any smoke seals (as maybe fitted) remain correctly fitted and are undamaged.
  - Check the latch (if fitted) to ensure correct operation

Any self-closing device (as maybe fitted) which is unable to be effectively adjusted should be replaced using a closer that has been validated by test for use on a door assembly of similar specification, and performs in accordance with the latest edition of BS EN 1154

It is not easy to repair doors and maintain the interactive behaviour of the various component parts, and except for minor repairs to 30 minute fire rating door leaf which Orca Doors recommend are performed via a professional source, where significant damage is detected the door leaf should be replaced in total. Door leaves providing a 60 minute fire rating or higher should be replaced, not repaired

**Note:** In the event of damage that necessitates the replacement of one leaf of a double door, both leaves should be replaced with a new matching pair. As a commitment of continuous improvement and possible changes of legislative requirement, would make it virtually impossible to ensure that a replacement single leaf would be of identical construction to that being removed.



## Fire Door Decoration

Fire door leaves are generally not required to provide a specific surface spread-of-flame barrier, and may therefore be re-decorated as desired.

Whilst suggested that the over painting/varnishing intumescent seals does not have detrimental effects, it is recommended that such action is limited to a maximum of 5 (five) coatings

Where intumescent seals are incorporated within the doorframe the use of heat or chemicals in preparation for re-coating should be avoided

Certified fire doors supplied by Orca Doors are permanently marked with their declared fire resistance period by means of a colour-coded plug(s). It is therefore recommended to avoid painting over the plug(s) during re-decoration

## Cleaning

### Laminate Faced Doors and Panels

The facings do not require any specific maintenance other than normal cleaning.

Its compact, non porous surface can be easily cleaned and disinfected with hot water, steam and all kind of common non abrasive household detergent and disinfectant, if not highly alkaline.

HPL highly resistant, so only few precautions are necessary:

- avoid using strong acids and bases
- avoid rubbing with highly abrasive substances or devices (i.e. sandpaper or steel wool)

It is antistatic, therefore it does not attract dust.

It does not require any treatment with furniture cleaners containing waxes: these kind of product tend to form on its surface a sticky layer which attracts dirt.

### General

The surfaces of Orca Compact panels can be easily cleaned with a dry or damp cloth and, if necessary, a mild household cleaner. Wipe damp surfaces with an absorbent cloth. Use of concentrated acid, caustic or abrasive cleaning agents is not recommended.

## Remove severe soiling

Severely dirty surfaces or areas where normal soiling\* has built up over a long period of time are easy to clean with hot water and an interior detergent- or soap-based cleaning agent, applied with a damp sponge or soft nylon brush. Wipe off with a clean damp cloth and remove any excess liquid immediately.

\* dust, pencil, ball pen, ink, coffee, tea, fruit juice, lipstick, grease, nicotine stains, shoe polish, urine, soap residues, limescale, water-soluble paints and adhesives.

Occasionally, it may be necessary to remove old stains or very stubborn marks with a liquid cleaner containing very fine polishing particles (attention: the surface may be damaged that way) or with bleach. Wash the surface down thoroughly afterwards with clean water and dry with an absorbent cloth.

## Removing special staining

| <i>Origin of dirt</i>  | <i>Recommended cleaning product and method</i>   |
|--|--|
| Syrup - fruit juice - jam - liquor - milk - tea - coffee - wine - soap - ink.  | Water and soft sponge.   |
| Animal and vegetal fat - sauce - dry blood - dried wine and liquors - eggs .   | Cold water and soap or domestic detergent. Rinse well and dry with a cotton cloth.   |
| Smoke-black - jelly - vegetal and vinyl adhesives - water-colour paints - organic residues - Arabic gum.                     | Wash with hot water and soap or a domestic detergent. rinse well and dry with a cotton cloth.  |
| Hair sprays - vegetal oils - castor oil - pen - markers - wax - foundation and greasy face powders - solvent residue haloes. | MEK - alcohol - acetone with a cotton cloth. Rinse well with cold water and dry with a clean cotton cloth - blotting paper or kitchen paper. |
| Nail polish - polish sprinkles - linseed oil.  | Acetone with a cotton cloth.   |
| Neoprene adhesives.  | Trichloroethane with a cotton cloth.   |
| Synthetic oil paints.  | Trichlorethylene nitro solvent with a cotton cloth.  |
| Spray paints.  | Thinner 3M - Vandal with a cotton cloth.   |
| Adhesive residues (acrylic or vegetal rubber) after removal of protective film.  | Thinner 3M - Vandal with a cotton cloth.   |
| Graffiti - paints ecc.   | Thinner 3M - Vandal with a cotton cloth.   |
| Silicone traces or residues.   | If it is completely dry it is impossible to remove. If not - use very gently a wooden or plastic scraper.                                    |
| Limescale.   | Detergents with a very low percentages of citric or acetic acid (max. 10%).  |

## Frequent cleaning

The recommended method for everyday cleaning of Orca HPL is warm water with a mild universal cleaning agent applied with a sponge or soft nylon brush. This is the ideal way to remove most light, recent soiling. Wipe damp surfaces with an absorbent cloth. Use of concentrated acid, caustic or abrasive cleaning agents is not recommended.

Orca warranties do not apply in case of improper or incorrectly performed cleaning. For the use of any cleaning agent, please consider (national) safety and environmental regulations

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**Glass**

Glass should be cleaned using a suitable standard glass cleaning agent.

**CAUTION**

Always follow the manufacturer's instructions carefully when using any cleaning agent or disinfectant. Using a combination of products may cause unwanted chemical reactions which produce harmful gases.

When surfaces have been cleaned with aggressive cleaning agents, they should be rinsed well to dilute the cleaning agent and prevent it from drying on the panel surface.