

Halspan Optima 30 3 Layer Particle Board Door-sets

MANN MCGOWAN
Advanced Intumescent Technology

This data sheet has been produced to assist joinery manufacturers using Halspan Optima cores to select the correct Mann McGowan® products when manufacturing fire resisting and smoke control doors.

Optima for FD 30 and FD 30(S) door-sets in timber frames

Door edge seal specification

| Configuration | Position | FD 30 | FD 30(S) |
|---|------------------------|--------------------|--|
| LSASD ULSASD DASD | Head < 2200mm | 1no.100PSA 10 x 4 | 1no. 100PSSSA 10 x 4 |
| | Head 2201-2800mm | 1no. 100PSA 20 x 4 | 1no. 100PSSSA 20 x 4 |
| | Jambs < 950mm | 1no.100PSA 10 x 4 | 1no. 100PSSSA 10 x 4 |
| | Jambs >951mm | 1no. 100PSA 15 x 4 | 1no. 100PSSSA 15 x 4 |
| LSADD ULSADD | Head <2400mm | 1no.100PSA 10 x 4 | 1no. 100PSSSA 10 x 4 |
| | Head 2401-2600mm | 1no.100PSA 20 x 4 | 1no. 100PSSSA 20 x 4 |
| | Jambs | 1no.100PSA 10 x 4 | 1no. 100PSSSA 10 x 4 |
| | Meeting Stiles Square | 2no. 100PSA 10 x 4 | 1no. 100PSSSA 10 x 4 + 1no. 100PSA 10 x 4 |
| | Meeting Stiles Rebated | 2no. 100PSA 15 x 4 | 1no. 100PSSSA 15 x 4 + 1no. 100PSA 15 x 4 |
| DADD | Head < 2400mm | 1no. 100PSA 10 x 4 | 1no. 100PSSSA 10 x 4 |
| | Head 2401-2600mm | 1no. 100PSA 20 x 4 | 1no.100PSSSA 20 x 4 |
| | Jambs | 1no.100PSA 10 x 4 | 1no. 100PSSSA 10 x 4 |
| | Meeting Stiles | 2no. 100PSA 10 x 4 | 1no. 100PSSSA 10 x 4 |
| LSASD + OP ULSASD + OP | Head Square | 1no.100PSA 20 x 4 | 1no. 100PSSSA 20 x 4 |
| | Head Rebated | 2no. 100PSA 10 x 4 | 1no 100PSSSA 10 x 4 + 1no 100PSA 10 x 4 |
| | Jambs | 1no.100PSA 10 x 4 | 1no. 100PSSSA 10 x 4 |
| DASD + OP | Head | 1no. 100PSA 20 x 4 | 1no. 100PSSSA 20 x 4 |
| | Jambs | 1no.100PSA 10 x 4 | 1no. 100PSSSA 10 x 4 |
| LSADD + OP | Head Square | 1no. 100PSA 20 x 4 | 1no. 100PSSSA 20 x 4 |
| | Head Rebated | 2no. 100PSA 15 x 4 | 1no.100PSSSA 15 x 4 + 1no. 100PSA 15 x 4 |
| | Jambs | 1no.100PSA 10 x 4 | 1no. 100PSSSA 10 x 4 |
| ULSADD + O/P | Head Square | 1no. 100PSA 20 x 4 | 1no. 100PSSSA 20 x 4 |
| | Head Rebated | 2no. 100PSA 15 x 4 | 1no. 100PSSSA 15 x 4 + 1no. 100PSA 15 x 4 |
| | Jambs | 1no. 100PSA 10 x 4 | 1no. 100PSSSA 10 x 4 |
| | Meeting Stiles | 2no. 100PSA 10 x 4 | 1no. 100PSSSA 10 x 4 + 1no. 100PSA 10 x 4 |

| | | | |
|------------------|----------------|--------------------|--|
| DADD + OP | Head | 1no. 100PSA 20 x 4 | 1no. 100PSSSA 20 x 4 |
| | Jambs | 1no. 100PSA 10 x 4 | 1no. 100PSSSA 10 x 4 |
| | Meeting Stiles | 2no. 100PSA 10 x 4 | 1no. 100PSSSA 10 x 4 + 1no. 100PSA 10 x 4 |

L = latched UL = unlatched SA = single action SD = single door DA = double action DD = double door OP = Overpanel

Pyrostrip® 100PSA and 100PSSSA Contains Palusol intumescent material

In FD30(S) applications - our **Flexifin-Twin** thermoplastic rubber smoke seal can be used in place of SS brush pile smoke seal if preferred.

Flexifin Twin has also been tested as an Acoustic seal to BS EN ISO 140-3 + 717-1

Glazing

Pyroglaze® 30 seals can be used on glazed apertures up to 1.29m²

Glasses include

| | | |
|--|---|---------------------------|
| 5mm Fivestar | 6mm Pyroswiss | 6mm Pyroshield |
| 6mm Pyran S | 6mm Sureglaze Clear (Max 0.41m ²) | 6mm Sureglaze Clear Wired |
| 7mm Pyrocet | 6mm Interglaze E 30 | 7mm Pyrodur Plus II |
| 7.2 mm Pyroguard Clear (max 0.90m ²) | 7.2mm Pyroguard Wired | 7mm Sureglaze Insul |
| 7mm Pyrobelite | 7.5mm Pyrodur Plus | 10mm Pyrodur |
| 12mm Pyrobel | 13mm Pyrodur | 15mm Pyrostop |

Ironmongery Protection

At meeting stiles of pairs, the strike + forends must be protected using **Interdens**

Mitron C2300 requires a **Pyrohinge®** intumescent pack.

Face mounted flush bolts **Pyromas®**

Edge fixed flush bolts **Pyromas®** + **Pyrohinge®**

Floor Springs **Pyrohinge®** gasket set

Flush Bolts **Interdens**

Cable Way **Interdens**

Letter Plate Cut out/Boxes

Pyropost® Fire Resisting Letter Plates

Sealing to Structural Openings

Pyromas® A intumescent sealant

Availability

Pyrostrip®, Pyroglaze®, Pyrohinge®, Pyromas®, Pyropost® Palusol and **Interdens** are available directly from **Mann McGowan®**. Please see below for contact details.

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Glass and Glazing Federation

