







































































DOUBLE HUNG







































































Operator Units

| MO (mm) | 1' - 6" (457) | 2' - 0" (610) | 2' - 6" (762) | 2' - 8" (813) | 3' - 0" (914) | 3' - 6" (1067) | 4' - 0" (1219) |
|---|---|---|---|---|---|---|---|
| RO (mm) | 1' - 6" (457) | 2' - 0" (610) | 2' - 6" (762) | 2' - 8" (813) | 3' - 0" (914) | 3' - 6" (1067) | 4' - 0" (1219) |
| FS (mm) | 1' - 5 1/2" (445) | 1' - 11 1/2" (597) | 2' - 5 1/2" (749) | 2' - 7 1/2" (902) | 2' - 11 1/2" (902) | 3' - 5 1/2" (1054) | 3' - 11 1/2" (1207) |
| DLO (mm) | 12 9/16" (319) | 18 9/16" (471) | 24 9/16" (624) | 26 9/16" (675) | 30 9/16" (776) | 36 9/16" (929) | 42 9/16" (1081) |
| 1' - 11 3/4" (603) 2' - 0" (610) 2' - 6" (762) 2' - 11 1/2" (597) 8 5/16" (211) |  IFDH1620 |  IFDH2020 |  IFDH2620 |  IFDH2820 |  IFDH3020 |  IFDH3620 |  IFDH4020 |
| 2' - 5 3/4" (756) 2' - 6" (762) 2' - 5 1/2" (749) 11 5/16" (287) |  IFDH1626 |  IFDH2026 |  IFDH2626 |  IFDH2826 |  IFDH3026 |  IFDH3626 |  IFDH4026 |
| 2' - 11 3/4" (908) 3' - 0" (914) 2' - 11 1/2" (902) 14 5/16" (363) |  IFDH1630 |  IFDH2030 |  IFDH2630 |  IFDH2830 |  IFDH3030 |  IFDH3630 |  IFDH4030 |
| 3' - 5 3/4" (1060) 3' - 6" (1067) 3' - 5 1/2" (1054) 17 5/16" (440) |  IFDH1636 |  IFDH2036 |  IFDH2636 |  IFDH2836 |  IFDH3036 |  IFDH3636 |  IFDH4036 |
| 3' - 11 3/4" (1213) 4' - 0" (1219) 3' - 11 1/2" (1207) 20 5/16" (516) |  IFDH1640 |  IFDH2040 |  IFDH2640 |  IFDH2840 |  IFDH3040 |  IFDH3640 |  IFDH4040 |
| 4' - 5 3/4" (1365) 4' - 6" (1372) 4' - 5 1/2" (1359) 23 5/16" (592) |  IFDH1646 |  IFDH2046 |  IFDH2646 |  IFDH2846 |  IFDH3046 |  IFDH3646 |  IFDH4046 |
| 4' - 11 3/4" (1518) 5' - 0" (1524) 4' - 11 1/2" (1511) 26 5/16" (668) |  IFDH1650 |  IFDH2050 |  IFDH2650 |  IFDH2850 |  IFDH3050 E |  IFDH3650 E |  IFDH4050 E |
| 5' - 5 3/4" (1670) 5' - 6" (1676) 5' - 5 1/2" (1664) 29 5/16" (744) |  IFDH1656 |  IFDH2056 |  IFDH2656 |  IFDH2856 |  IFDH3056 E |  IFDH3656 E |  IFDH4056 E |
| 5' - 11 3/4" (1822) 6' - 0" (1829) 5' - 11 1/2" (1816) 32 5/16" (821) |  IFDH1660 |  IFDH2060 |  IFDH2660 E |  IFDH2860 E |  IFDH3060 E |  IFDH3660 E |  IFDH4060 E |
| 6' - 5 3/4" (1975) 6' - 6" (1981) 6' - 5 1/2" (1969) 35 5/16" (897) |  IFDH1666 |  IFDH2066 |  IFDH2666 E |  IFDH2866 E |  IFDH3066 E |  IFDH3666 E |  IFDH4066 E |

DOUBLE HUNG



















































INTEGRITY® FROM MARVIN®
ALL ULTREX® SERIES

2 Wide Operator Units





















| MO (mm) | 3' - 0" (914) | 4' - 0" (1219) | 5' - 0" (1524) | 5' - 4" (1626) | 6' - 0" (1829) | 7' - 0" (2134) | 8' - 0" (2438) |
|--|---|---|---|---|--|---|---|
| RO (mm) | 3' - 0" (914) | 4' - 0" (1219) | 5' - 0" (1524) | 5' - 4" (1626) | 6' - 0" (1829) | 7' - 0" (2134) | 8' - 0" (2438) |
| FS (mm) | 2' - 11 1/2" (902) | 3' - 11 1/2" (1207) | 4' - 11 1/2" (1511) | 5' - 3 1/2" (1600) | 5' - 11 1/2" (1816) | 6' - 11 1/2" (2121) | 7' - 11 1/2" (2426) |
| 1' - 11" 3/4" (603) 2' - 0" (610) 1' - 11 1/2" (597) |  IFDH1620 |  IFDH2020 |  IFDH2620 |  IFDH2820 |  IFDH3020 |  IFDH3620 |  IFDH4020 |
| 2' - 5 3/4" (756) 2' - 6" (762) 2' - 5 1/2" (749) |  IFDH1626 |  IFDH2026 |  IFDH2626 |  IFDH2826 |  IFDH3026 |  IFDH3626 |  IFDH4026 |
| 2' - 11 3/4" (908) 3' - 0" (914) 2' - 11 1/2" (902) |  IFDH1630 |  IFDH2030 |  IFDH2630 |  IFDH2830 |  IFDH3030 |  IFDH3630 |  IFDH4030 |
| 3' - 5 3/4" (1060) 3' - 6" (1067) 3' - 5 1/2" (1054) |  IFDH1636 |  IFDH2036 |  IFDH2636 |  IFDH2836 |  IFDH3036 |  IFDH3636 |  IFDH4036 |
| 3' - 11 3/4" (1213) 4' - 0" (1219) 3' - 11 1/2" (1207) |  IFDH1640 |  IFDH2040 |  IFDH2640 |  IFDH2840 |  IFDH3040 |  IFDH3640 |  IFDH4040 |
| 4' - 5 3/4" (1365) 4' - 6" (1372) 4' - 5 1/2" (1359) |  IFDH1646 |  IFDH2046 |  IFDH2646 |  IFDH2846 |  IFDH3046 |  IFDH3646 |  IFDH4046 |
| 4' - 11 3/4" (1518) 5' - 0" (1524) 4' - 11 1/2" (1511) |  IFDH1650 |  IFDH2050 |  IFDH2650 |  IFDH2850 |  IFDH3050 E |  IFDH3650 E |  IFDH4050 E |
| 5' - 5 3/4" (1670) 5' - 6" (1676) 5' - 5 1/2" (1664) |  IFDH1656 |  IFDH2056 |  IFDH2656 |  IFDH2856 |  IFDH3056 E |  IFDH3656 E |  IFDH4056 E |
| 5' - 11 3/4" (1822) 6' - 0" (1829) 5' - 11 1/2" (1816) |  IFDH1660 |  IFDH2060 |  IFDH2660 E |  IFDH2860 E |  IFDH3060 E |  IFDH3660 E |  IFDH4060 E |
| 6' - 5 3/4" (1975) 6' - 6" (1981) 6' - 5 1/2" (1969) |  IFDH1666 |  IFDH2066 |  IFDH2666 E |  IFDH2866 E |  IFDH3066 E |  IFDH3666 E |  IFDH4066 E |

DOUBLE HUNG

3 Wide Operator Units

| MO (mm) | 4' - 6" (1372) | 6' - 0" (1829) | 7' - 6" (2286) | 8' - 0" (2438) | 9' - 0" (2743) |
|--|---|---|---|--|---|
| RO (mm) | 4' - 6" (1372) | 6' - 0" (1829) | 7' - 6" (2286) | 8' - 0" (2438) | 9' - 0" (2743) |
| FS (mm) | 4' - 5 1/2" (1359) | 5' - 11 1/2" (1816) | 7' - 5 1/2" (2273) | 7' - 11 1/2" (2413) | 8' - 11 1/2" (2731) |
| 1' - 11 3/4" (603) 2' - 0" (610) 2' - 11 1/2" (697) |  IFDH1620 |  IFDH2020 |  IFDH2620 |  IFDH2820 |  IFDH3026 |
| 2' - 5 3/4" (756) 2' - 6" (762) 2' - 5 1/2" (749) |  IFDH1626 |  IFDH2026 |  IFDH2626 |  IFDH2826 |  IFDH3026 |
| 2' - 11 3/4" (908) 3' - 0" (914) 2' - 11 1/2" (902) |  IFDH1630 |  IFDH2030 |  IFDH2630 |  IFDH2830 |  IFDH3030 |
| 3' - 5 3/4" (1060) 3' - 6" (1067) 3' - 5 1/2" (1054) |  IFDH1636 |  IFDH2036 |  IFDH2636 |  IFDH2836 |  IFDH3036 |
| 3' - 11 3/4" (1213) 4' - 0" (1219) 3' - 11 1/2" (1207) |  IFDH1640 |  IFDH2040 |  IFDH2640 |  IFDH2840 |  IFDH3040 |
| 4' - 5 3/4" (1365) 4' - 6" (1372) 4' - 5 1/2" (1359) |  IFDH1646 |  IFDH2046 |  IFDH2646 |  IFDH2846 |  IFDH3046 |
| 4' - 11 3/4" (1518) 5' - 0" (1524) 4' - 11 1/2" (1511) |  IFDH1650 |  IFDH2050 |  IFDH2650 |  IFDH2850 |  IFDH3050 E |
| 5' - 5 3/4" (1670) 5' - 6" (1676) 5' - 5 1/2" (1664) |  IFDH1656 |  IFDH2056 |  IFDH2656 |  IFDH2856 |  IFDH3056 E |
| 5' - 11 3/4" (1822) 6' - 0" (1829) 5' - 11 1/2" (1816) |  IFDH1660 |  IFDH2060 |  IFDH2660 E |  IFDH2860 E |  IFDH3060 E |
| 6' - 5 3/4" (1975) 6' - 6" (1981) 6' - 5 1/2" (1969) |  IFDH1666 |  IFDH2066 |  IFDH2666 E |  IFDH2866 E |  IFDH3066 E |

4 Wide Operator Units

| MO (mm) | 6' - 0" (1829) | 8' - 0" (2438) |
|--|---|---|
| RO (mm) | 6' - 0" (1829) | 8' - 0" (2438) |
| FS (mm) | 5' - 11 1/2" (1816) | 7' - 11 1/2" (2426) |
| 1' - 11" 3/4" (603) 2' - 0" (610) 1' - 11 1/2" (597) |  IFDH1620 |  IFDH2020 |
| 2' - 5 3/4" (756) 2' - 6" (762) 2' - 5 1/2" (749) |  IFDH1626 |  IFDH2026 |
| 2' - 11 3/4" (908) 3' - 0" (914) 2' - 11 1/2" (902) |  IFDH1630 |  IFDH2030 |
| 3' - 5 3/4" (1060) 3' - 6" (1067) 3' - 5 1/2" (1054) |  IFDH1636 |  IFDH2036 |
| 3' - 11 3/4" (1213) 4' - 0" (1219) 3' - 11 1/2" (1207) |  IFDH1640 |  IFDH2040 |
| 4' - 5 3/4" (1365) 4' - 6" (1372) 4' - 5 1/2" (1359) |  IFDH1646 |  IFDH2046 |
| 4' - 11 3/4" (1518) 5' - 0" (1524) 4' - 11 1/2" (1511) |  IFDH1650 |  IFDH2050 |
| 5' - 5 3/4" (1670) 5' - 6" (1676) 5' - 5 1/2" (1664) |  IFDH1656 |  IFDH2056 |
| 5' - 11 3/4" (1822) 6' - 0" (1829) 5' - 11 1/2" (1816) |  IFDH1660 |  IFDH2060 |
| 6' - 5 3/4" (1975) 6' - 6" (1981) 6' - 5 1/2" (1969) |  IFDH1666 |  IFDH2066 |

GBG available in standard Rectangular lite cut, shown. Other GBG lite cuts shown on page 3.

E = These windows (in equal sash) meet National Egress Codes for fire evacuation. Local codes may differ.

Details and Elevations not to scale.

Available in equal, cottage, and reverse cottage sash configurations. Cottage and reverse cottage sash configurations are not available on 20, 60, and 66 call number heights.

Obscure Glass option available on all units.

Units may optionally include a window opening control device tested to ASTM F2090-10, which can be released from the inside without the use of a key, tool, special knowledge, or force greater than that required for normal unit operation.

Special sized units available within product size matrix. See your Integrity retailer.

See page 52 for specific PG Ratings.

Multiple Assemblies

Multiple assemblies can be factory mullled.

MAXIMUM ROUGH OPENING not to exceed 114" X 78". Maximum up to 6 units wide by 1 unit high.

MAXIMUM ROUGH OPENING not to exceed 96" X 96". Maximum up to 5 units wide by 5 units high.

Field mull kits are available. Structural mullion reinforcement is required for some assemblies.

Please consult your local Integrity from Marvin representative for more information.

DOUBLE HUNG - Transoms and Multiple Assemblies

In-Sash Transom Mullered Over Double Hung – Operator Unit

| | |
|----------------|-------------------|
| MO (mm) | 2' - 6" (762) |
| RO (mm) | 2' - 6" (762) |
| FS (mm) | 2' - 5 1/2" (749) |

In-Sash Transom Mullered Over Double Hung – 2 Wide Operator Unit

| | |
|----------------|---------------------|
| MO (mm) | 5' - 0" (1524) |
| RO (mm) | 5' - 0" (1524) |
| FS (mm) | 4' - 11 1/2" (1511) |

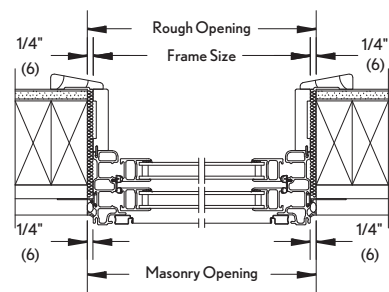
Double Hung Flankers with Picture Center Unit*

| | |
|----------------|---------------------|
| MO (mm) | 10' - 0" (3048) |
| RO (mm) | 10' - 0" (3048) |
| FS (mm) | 9' - 11 1/2" (3035) |

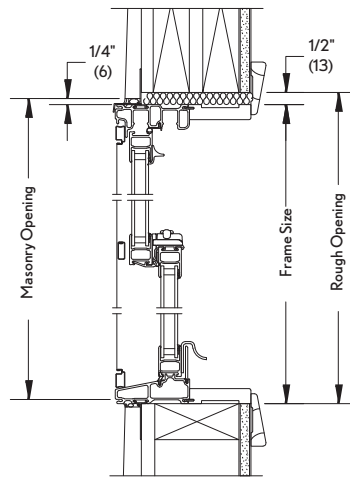
Double Hung Flankers with Operator Center Unit

| | |
|----------------|--------------------|
| MO (mm) | 7' - 6" (2286) |
| RO (mm) | 7' - 6" (2286) |
| FS (mm) | 7' - 5 1/2" (2273) |

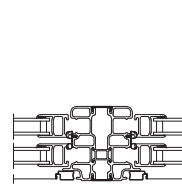
Construction Details



Jamb



Head Jamb & Sill



Vertical Mullion



Horizontal Mullion Transom/Operator

* This product is only available field mullled.

Details and Elevations not to scale.

Available in equal, cottage, and reverse cottage sash configurations. Cottage and reverse cottage sash configurations are not available on 20, 60, and 66 call number heights.

Obscure Glass option available on all units.

Units may optionally include a window opening control device tested to ASTM F2090-10, which can be released from the inside without the use of a key, tool, special knowledge, or force greater than that required for normal unit operation.

Special sized units available within product size matrix. See your Integrity® retailer.

See page 52 for specific PG Ratings.

Multiple Assemblies

Multiple assemblies can be factory mullled.

MAXIMUM ROUGH OPENING not to exceed 114" X 78". Maximum up to 6 units wide by 1 unit high.

MAXIMUM ROUGH OPENING not to exceed 96" X 96". Maximum up to 5 units wide by 5 units high.

Field mull kits are available. Structural mullion reinforcement is required for some assemblies.

Please consult your local Integrity from Marvin® representative for more information.