

HINGES

VENT SIZE AND WEIGHT CHART - DEFENDER® Restricted Hinges

| Hinge Code (Top Hung) | Max. Vent Weight (Kg) | Min. Vent Height (mm) | Max. Vent Height (mm) | Max. Vent Width (mm) | Restricted Angle (+/- 2.5°) | Opening Angle (+/- 2.5°) |
|------------------------|-----------------------|-----------------------|-----------------------|----------------------|-----------------------------|--------------------------|
| EDTR12 | 20 | 350 | 550 | - | 14° | 65° |
| EDTR16 | 21 | 500 | 780 | - | 10° | 59° |
| EDTR20 | 26 | 700 | 1100 | - | 8° | 50° |
| EDTR24 | 40 | 850 | 1300 | - | 7° | 37.5° |
| Hinge Code (Side Hung) | | Min. Vent Width (mm) | | | | |
| EDSR12 | 22 | 300 | - | 600 | 13° | 58° |
| EDSR16 | 24 | 400 | - | 700 | 11° | 58° |

Note: Vent height/width is measured from rebate to rebate (not overall size or outer frame size) on conventional windows or glass size on structurally glazed windows e.g. curtain wall panels whichever is the greater dimension. For maximum vent height and widths not stated, consult profile manufacturers for recommendations on requirements of system strength and sealing.

Note: Above sizes/weights also apply to DEFENDER® Hinge Variants - H6/H7 (Highline) & -TV (Timber Variant - standard stack height only).

Note: The restricted opening provided by restricted hinges is controlled by the restricted angle shown above. The resulting opening will vary dependant on profile and vent size.

It is the responsibility of the user to ensure that this document is at the latest issue.

Due to our policy of continual product improvement we reserve the right to alter specifications without notice.

It is the responsibility of the window manufacturer to ensure that the finished window meets the required performance and safety specification.

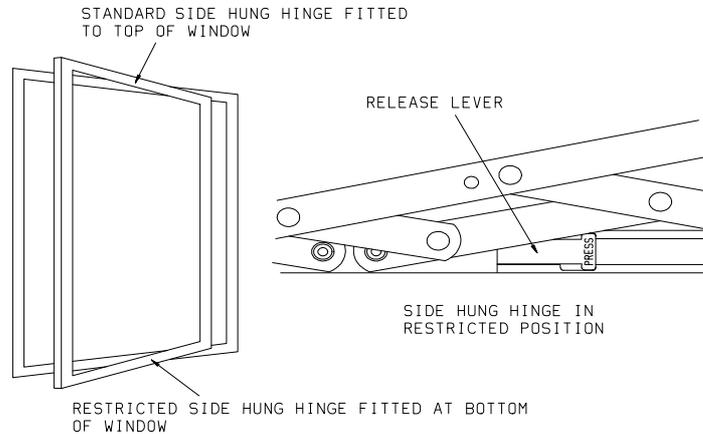


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FITTING INSTRUCTIONS: Restricted Hinges

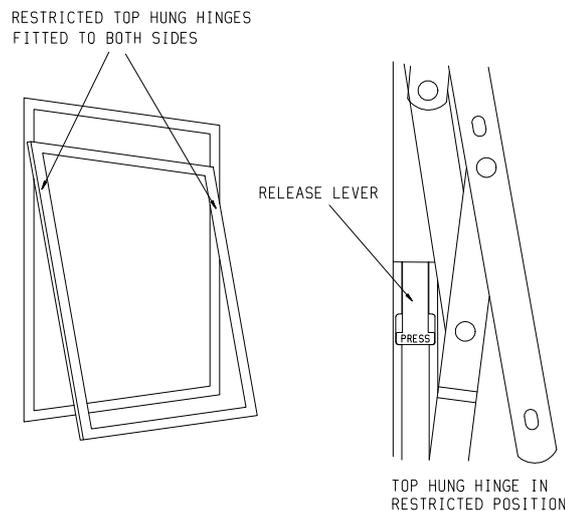
Notes on the fitting of Restricted hinges

- 1.1.1 A side hung window configuration as shown below would require a Restricted side hung hinge at the bottom - right hand e.g. EDSR12R and a Standard side hung hinge at the top - left hand e.g. EDCS12L.



- 1.1.2 To fully open a restricted window in side hung configuration, open the vent to the restricted position then draw the window slightly towards you. Depress the lever to release the restrictor and open the window. To reset the restrictor from fully open depress the lever, pull the window in and the mechanism will auto-relocate. (See self adhesive window label packed with the hinges)

- 1.1.3 A top hung window configuration as shown below would require restricted top hung hinges on both sides e.g. EDTR16 (sold as pairs).



- 1.1.4 To fully open a restricted window in top hung configurations depress both the levers and slide down to release the restrictor mechanism. To reset the restrictor mechanism close the window and the mechanism will auto-relocate. (See self adhesive window label packed with the hinges)

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FITTING INSTRUCTIONS: Fixing Hole References

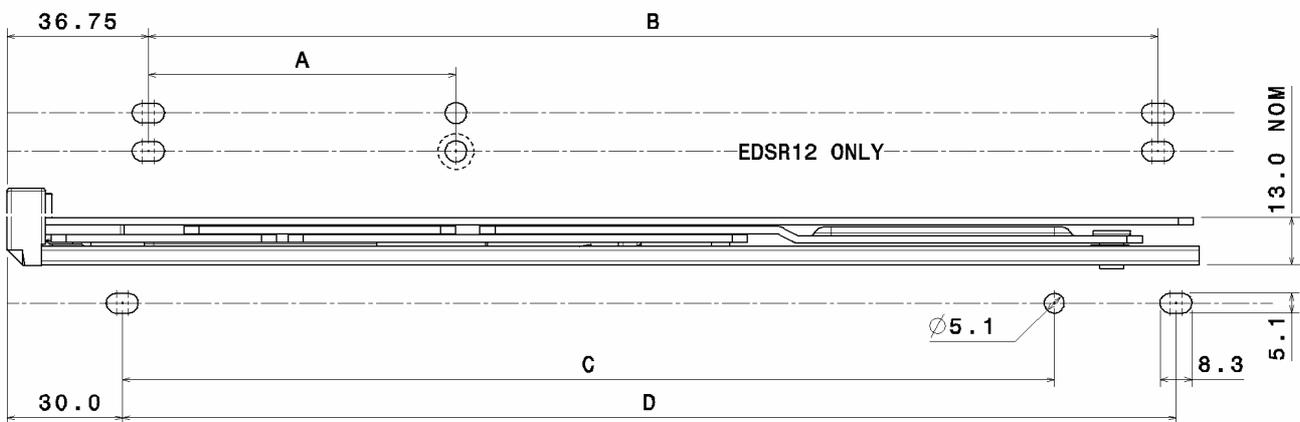
Fixing Hole Centre Reference Chart - DEFENDER® Restricted Hinges

EDTR - Defender Top Hung Restricted

EDSR - Defender Side Hung Restricted

Dimensions

| Description | A | B | C | D |
|---------------|-------|--------|-------|-------|
| EDTR12 | 47.25 | 188.25 | 238.0 | 274.0 |
| EDTR16 | 106.0 | 228.6 | 327.0 | 375.6 |
| EDTR20 | 170.5 | 271.75 | 428.5 | 477.2 |
| EDTR24 | 220.5 | 322.5 | 428.5 | 578.8 |
| EDSR12 | 80.0 | 262.5 | 242.3 | 274.0 |
| EDSR16 | 106.0 | 322.5 | 338.0 | 375.6 |



Not to Scale, All dimensions in mm

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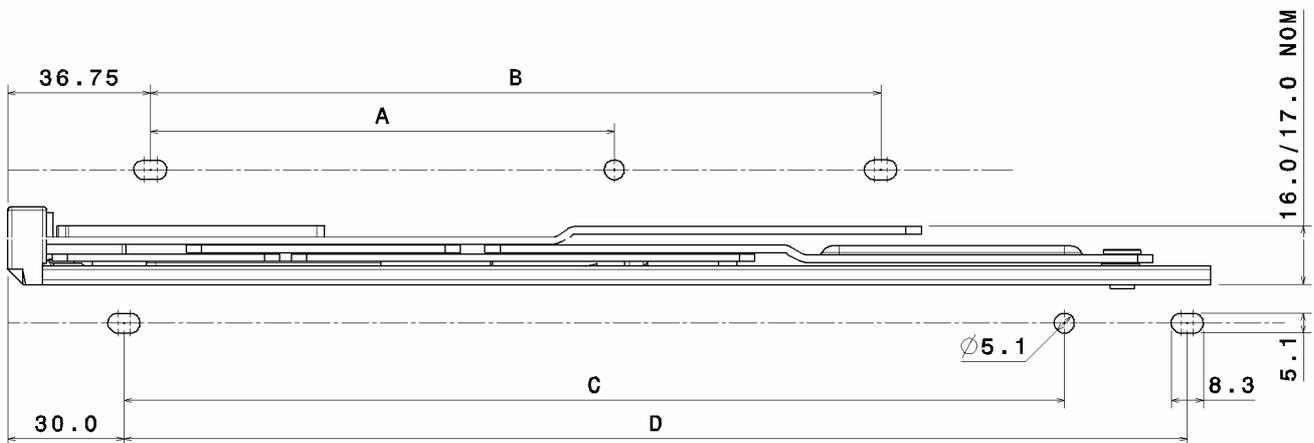
FITTING INSTRUCTIONS: Fixing Hole References

Fixing Hole Centre Reference Chart - DEFENDER® Restricted Highline Hinges

- EDTR - Defender Top Hung Restricted
- EDSR - Defender Side Hung Restricted
- H6 - 16mm Stack Height
- H7 - 17mm Stack Height

Dimensions

| Description | A | B | C | D |
|--------------------|--------|--------|-------|-------|
| EDTR12H6/H7 | 95.0 | 152.75 | 238.0 | 274.0 |
| EDTR16H6/H7 | 152.75 | 220.5 | 327.0 | 375.6 |
| EDTR20H6/H7 | 220.5 | 271.75 | 428.5 | 477.2 |
| EDTR24H6/H7 | 271.75 | 322.5 | 428.5 | 578.8 |
| EDSR12H6/H7 | 119.6 | 188.25 | 242.3 | 274.0 |
| EDSR16H6/H7 | 152.75 | 220.5 | 338.0 | 375.6 |



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