

PRODUCT BULLETIN

Roto NT Designo 2



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Designo 2 is the new concealed hinge tilt before turn (TBT) window hardware system from Roto. It replaces NT Royal 'R'. Although new to the UK, Designo 2 has been used on the continent for a number of years so is a tried and tested product.

Designo 2 carries sashes weighing up to 100Kg as standard (the same as Royal), but the maximum weight goes up to 150Kg if a load transfer device is fitted above the bottom hinge assembly.

Another big advantage of Designo 2 is that there is no need to pre-set the position of the top and bottom frame hinge components by pre-drilling the fixing holes with the use of a jig. The profile related components simply locate into the corner, ready for fixing.

The maximum tilt angle can be set to the Standard (140mm) or Reduced (80mm) tilt range when fitting the stay arm, and the window will open to a generous 100° in turn mode to allow easy cleaning from inside the building and unrestricted passage if required. An additional turn restrictor restricts the turn angle of heavy sashes, or those over 1000mm wide.

As Designo 2 is part of the NT family, it benefits from the patented Clip&Fit system which speeds up the fitting procedure. The components are held in place within the Eurogroove prior to final fixing, making NT suitable for manual or automated fabrication lines.

One operative can easily hang the sash onto the frame and all adjustments are carried out using a standard 4mm Allen key, so installation is very simple.

Benefits at a glance:

- 100Kg sash weight as standard with option to upgrade to 150Kg
- 2600mm maximum sash rebate height (1400mm sash rebate width)
- No pre-drilling with jig required for hinges as they self locate into frame corners
- 100° turn opening for easy passage if required, or effective purge ventilation
- 2 tilt range settings
- Utilises most existing hardware from popular NT system
- Standard and Security options
- Attractive matt silver Roto Sil Nano surface treatment looks great and meets the requirements of EN1670:2007 grade 5 (480 hours)
- NT faceplate for greater stability and pleasing aesthetics
- Clip&Fit system makes it easy to fit the hardware on manual or automated production lines
- All adjustments are carried out with a standard 4mm Allen key and the sash can be hung easily by one operative

Designo 2 is suitable for PVCu, aluminium and timber window systems with a standard 16mm Eurogroove in the 13mm axis position. It cannot be used on profiles with a 9mm axis, as is the case with many timber or aluminium profiles. However, such systems can be catered for with hinge types 10 & 13 from the Royal systems.

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