SWS HARDWARE

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# TECTUS 3D Adjustable Hinge 200 x 32mm 120KG - SW174 Bronze Finish

**Variant code: TE540.3D.SW174**

The **TECTUS 3D Adjustable Concealed Heavy-Duty Hinge** is a high-performance hinge system designed for **unrebated heavy-duty doors**. Measuring **200 x 32mm** and providing a substantial **load capacity of up to 120kg**, it combines robust performance with a completely concealed installation for demanding architectural door applications.

The **completely concealed hinge system** is suitable for use with **timber, steel or aluminium frames** and provides comfortable **3D adjustment** for accurate door alignment. Adjustment includes **side +/- 3.0mm, height +/- 3.0mm and compression +/- 1.0mm**, while **maintenance-free slide bearings** support smooth and dependable operation with minimal maintenance requirements.

A **sideways closed hinge body** provides an aesthetically pleasing and homogeneous mortise appearance, while an **opening angle of up to 180°** provides excellent accessibility where the door installation permits. The hinge carries **CE, IFT, UL and UKCA certification** and is also **Warringtonfire tested**, providing documented credentials for professional door specifications.

## Product Features

- **Completely concealed hinge system**
- **200 x 32mm** hinge dimensions
- **Load capacity up to 120kg**
- Designed for **unrebated heavy-duty doors**
- Suitable for **timber, steel or aluminium frames**
- Provides comfortable **3D adjustment**
- **Side adjustment:** +/- 3.0mm
- **Height adjustment:** +/- 3.0mm
- **Compression adjustment:** +/- 1.0mm
- Features **maintenance-free slide bearings**
- **Sideways closed hinge body** for an aesthetically pleasing mortise

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appearance
- Provides an **opening angle up to 180°**
- **CE, IFT, UL and UKCA certified**
- **Warringtonfire tested**

## Product Benefits

- **Up to 120kg load capacity provides dependable support for demanding heavy-duty door installations**
- **Completely concealed installation creates a clean and minimalist appearance when the door is closed**
- **3D adjustment enables precise side, height and compression alignment after installation**
- Compatible with **timber, steel and aluminium frames** for versatile specification
- **Maintenance-free slide bearings** help minimise ongoing servicing requirements
- **Sideways closed hinge body** creates a neat and homogeneous mortise appearance
- **180° opening angle** provides excellent opening capability where the installation permits
- **CE, IFT, UL and UKCA certification** provides documented product credentials
- **Warringtonfire testing** provides additional independently tested performance credentials

## Technical Characteristics

- **Product Type:** 3D Adjustable Concealed Heavy-Duty Hinge
- **Overall Length:** 200mm
- **Door Part Width:** 32mm
- **Frame Part Width:** 32mm
- **Load Capacity:** Up to 120kg
- **Door Type:** Unrebated Heavy-Duty Doors
- **Frame Compatibility:** Timber, Steel & Aluminium
- **Side Adjustment:** +/- 3.0mm
- **Height Adjustment:** +/- 3.0mm
- **Compression Adjustment:** +/- 1.0mm
- **Bearing Type:** Maintenance-Free Slide Bearings
- **Minimum Door Thickness:** 40mm
- **Cutter Diameter:** 24mm
- **Collar Ring Diameter:** 30mm
- **Opening Angle:** 180°
- **Function Range:** Functional Heavy-Duty Door Applications

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- **Certification:** CE, IFT, UL & UKCA
- **Additional Testing:** Warringtonfire Tested
- **Classification Standard:** EN 1935 / EAD
- **Classification Code:** 4 7 6 1* 1 1 — * 1 13
- **Load Capacity Basis:** 2 Hinges Per 2000 x 1000mm Door

## Applications

The **TECTUS 3D Adjustable Concealed Heavy-Duty Hinge** is designed for **unrebated heavy-duty doors** installed into compatible **timber, steel or aluminium frames**. Its combination of a **completely concealed design, 120kg load capacity, precise 3D adjustment, maintenance-free slide bearings and 180° opening angle** makes it particularly suitable for demanding residential, commercial and architectural door installations where **high load-bearing performance, accurate alignment and discreet aesthetics** are required. For functional door applications, the relevant test evidence must be established with the complete door set and assembly.

| Property | Value |
|---|---|
| Finish | Bronze Finish |
| Opening angle (°) | 180 |
| Load Capacity (kg) | 120 |
| Width Door Part (mm) | 32 |
| Width Frame Part (mm) | 32 |
| Cutter diameter (mm) | 24 |
| Collar ring diameter (mm) | 30 |
| Min Door Thickness (mm) | 40 |
| Overall Length (mm) | 200 |
| Certification | CE, IFT, UL & UKCA |