SWS HARDWARE

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# TECTUS TE540 3D A8 Adjustable Hinge 200 x 32mm 100KG 8mm Cladding - SW168 Bronze Metallic

**Variant code: TE540.3D.A8.AB**

The **TECTUS 3D A8 Adjustable Concealed Hinge** is a high-performance hinge system specifically designed for **unrebated heavy-duty doors with claddings up to 8mm on both sides**. Measuring **200 x 32mm** and providing a **load capacity of up to 100kg**, it combines substantial load-bearing performance with a completely concealed installation for demanding architectural door applications.

Suitable for use with **timber, steel or aluminium frames**, the hinge provides comfortable **3D adjustment** for accurate door alignment. Adjustment includes **side +/- 3.0mm, height +/- 3.0mm and compression +/- 1.0mm**. **Maintenance-free slide bearings** support smooth and dependable operation while helping to minimise ongoing maintenance requirements.

The hinge features a **sideways closed hinge body** for an aesthetically pleasing and homogeneous mortise appearance and provides an **opening angle of up to 180°**. Its documented quality marks include **CE, IFT, UL and UKCA certification**, together with **Warringtonfire testing**. It can also be specified within functional door applications including **Fire Resistance, Smoke Resistance, Soundproof and Burglar Resistance**, subject to appropriate test evidence for the complete door set and assembly.

## Product Features

- **Completely concealed hinge system**
- Designed for **unrebated heavy-duty doors**
- Suitable for doors with **claddings up to 8mm on both sides**
- **200 x 32mm** hinge dimensions
- **Load capacity up to 100kg**
- Suitable for **timber, steel or aluminium frames**
- Provides comfortable **3D adjustment**
- **Side adjustment:** +/- 3.0mm

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- **Height adjustment:** +/- 3.0mm
- **Compression adjustment:** +/- 1.0mm
- Features **maintenance-free slide bearings**
- **Sideways closed hinge body** for an aesthetically pleasing mortise appearance
- Provides an **opening angle up to 180°**
- **CE, IFT, UL and UKCA certified**
- **Warringtonfire tested**

## Product Benefits

- **Accommodates claddings up to 8mm on both sides, providing greater flexibility for high-quality architectural door designs**
- **Up to 100kg load capacity provides dependable support for suitable heavy-duty doors**
- **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** provides a neat and homogeneous mortise appearance
- **180° opening angle** provides excellent opening capability where the installation permits
- Can form part of appropriately tested assemblies requiring **Fire Resistance, Smoke Resistance, Soundproof or Burglar Resistance**
- **CE, IFT, UL and UKCA certification**, together with **Warringtonfire testing**, provides documented product credentials

## Technical Characteristics

- **Product Type:** 3D A8 Adjustable Concealed Heavy-Duty Hinge
- **Overall Length:** 200mm
- **Door Part Width:** 32mm
- **Frame Part Width:** 32mm
- **Load Capacity:** Up to 100kg
- **Maximum Cladding Thickness:** Up to 8mm on Both Sides

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- **Minimum Door Thickness:** 49mm Including Claddings
- **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
- **Cutter Diameter:** 24mm
- **Collar Ring Diameter:** 30mm
- **Opening Angle:** 180°
- **Function Range:** Fire Resistance, Smoke Resistance, Soundproof & Burglar Resistance
- **Certification:** CE, IFT, UL & UKCA
- **Additional Testing:** Warringtonfire Tested
- **Classification Standard:** EN 1935 / EAD
- **Classification Code:** 4 7 5 1* 1 1 — * 1 12
- **Load Capacity Basis:** 2 Hinges Per 2000 x 1000mm Door

## Applications

The **TECTUS 3D A8 Adjustable Concealed Hinge** is designed for **unrebated heavy-duty doors with architectural claddings** installed into compatible **timber, steel or aluminium frames**. Its ability to accommodate **claddings up to 8mm on both sides**, combined with a **100kg load capacity, precise 3D adjustment, maintenance-free slide bearings and 180° opening angle**, makes it particularly suitable for demanding architectural and commercial door installations where **concealed hardware, accurate alignment and a clean flush appearance** are required. It can also form part of door assemblies requiring **Fire Resistance, Smoke Resistance, Soundproof or Burglar Resistance**, subject to the complete door set achieving the required test evidence.

| Property | Value |
|---|---|
| Finish | Bronze Metallic |
| Opening angle (°) | 180 |
| Load Capacity (kg) | 100 |
| Width Door Part (mm) | 32 |
| Width Frame Part (mm) | 32 |

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| Property | Value |
| --- | --- |
| Cutter diameter (mm) | 24 |
| Collar ring diameter (mm) | 30 |
| Min Door Thickness (mm) | 49 |
| Overall Length (mm) | 200 |
| Certification | CE, IFT, UL & UKCA |