



TECTUS TE640 3D A8 Adjustable Hinge 240 x 32mm 160KG 8mm Cladding – SW175 Bronze Finish Light

Variant code: TE640.3D.A8.SW175

The **TECTUS 3D A8 Adjustable Concealed Heavy-Duty Hinge** is a high-performance, completely concealed hinge system designed for **unrebated heavy-duty doors with claddings up to 8mm on both sides**. Measuring **240 x 32mm** and offering a substantial **load capacity of up to 160kg**, it provides a discreet and robust solution for demanding architectural door installations.

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

The **sideways closed hinge body** creates an aesthetically pleasing and homogeneous mortise appearance, complementing the completely concealed installation. The hinge provides an **opening angle of up to 180°** and carries **CE, IFT, UL and UKCA certification**. Its specified function range covers **Burglar Resistance, Fire Resistance, Smoke Resistance and Soundproof** applications, subject to appropriate test evidence for the complete door set and assembly.

Product Features

- **Completely concealed hinge system**
- Designed for **unrebated heavy-duty doors**
- Accommodates **claddings up to 8mm on both sides**
- Suitable for **timber, steel or aluminium frames**
- **240 x 32mm** hinge dimensions
- **Load capacity up to 160kg**
- Comfortable **3D adjustment** for accurate positioning
- **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 appearance
- Provides an **opening angle up to 180°**
- **CE, IFT, UL and UKCA certified**
- **Function Range:** Burglar Resistance, Fire Resistance, Smoke Resistance & Soundproof

Product Benefits

- **160kg load capacity** provides substantial support for demanding heavy-duty door installations
- **Accommodates claddings up to 8mm on both sides** for greater flexibility in architectural door designs
- **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** support smooth operation while helping reduce ongoing servicing requirements
- **Sideways closed hinge body** provides a neat and homogeneous mortise appearance
- **180° opening angle** provides extensive opening capability where the installation permits
- Specified for functional door applications requiring **Burglar Resistance, Fire Resistance, Smoke Resistance or Soundproof performance**, subject to the complete door assembly

Technical Characteristics

- **Product Type:** 3D A8 Adjustable Concealed Heavy-Duty Hinge
- **Overall Length:** 240mm
- **Door Part Width:** 32mm
- **Frame Part Width:** 32mm
- **Load Capacity:** Up to 160kg
- **Maximum Cladding Thickness:** Up to 8mm on Both Sides
- **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:** Burglar Resistance, Fire Resistance, Smoke Resistance & Soundproof
- **Certification / Quality Marks:** CE, IFT, UL & UKCA
- **Classification Standard:** EN 1935 / EAD
- **Classification Code:** 4 7 7 1*11 —*2 1 14
- **Load Capacity Basis:** 2 Hinges Per 2000 x 1000mm Door Leaf

Applications

The **TECTUS 3D A8 Adjustable Concealed Heavy-Duty Hinge** is designed for demanding **unrebated heavy-duty doors with claddings up to 8mm on both sides**, installed into compatible **timber, steel or aluminium frames**. Its combination of a substantial **160kg load capacity, concealed design, precise 3D adjustment, maintenance-free slide bearings and 180° opening angle** makes it suitable for architectural and commercial door installations where **high load-bearing performance, clad door construction, accurate alignment and discreet hardware** are required. Its specified function range also covers **Burglar Resistance, Fire Resistance, Smoke Resistance and Soundproof** applications, subject to appropriate test evidence for the complete door set and assembly.

Property	Value
Finish	Bronze Finish Light
Opening angle (°)	180
Load Capacity (kg)	160
Width Door Part (mm)	32
Width Frame Part (mm)	32
Cutter diameter (mm)	24



Property	Value
Collar ring diameter (mm)	30
Min Door Thickness (mm)	49
Overall Length (mm)	240
Certification	CE, IFT, UL & UKCA