SWS HARDWARE

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TECTUS ENERGY 3D A8 Adjustable Concealed Hinge 200 x 32mm 120KG - SW175 Light Bronze

Variant code: TE540.3D.A8.EGY.SW175

The **TECTUS ENERGY 3D A8 Adjustable Concealed Hinge** is a high-performance hinge solution combining a **completely concealed design** with **permanent energy transfer** for modern door systems. Designed for **unrebated heavy-duty doors**, it allows electrical power or signals to be transferred discreetly through the hinge area while maintaining clean, uninterrupted door and frame lines.

Designed to accommodate **door claddings up to 8mm on both sides**, the hinge has a manufacturer-specified **100kg load capacity** and is suitable for **timber, steel and aluminium frames**. Comfortable **3D adjustment** allows the installed door to be adjusted by **+/-3mm sideways, +/-3mm vertically and +/-1mm in compression**, helping installers achieve accurate door alignment.

With an overall size of **200 x 32mm**, an opening angle of up to **180°** and **maintenance-free slide bearings**, the hinge combines concealed aesthetics with demanding architectural performance. **Individual connection adapter options** provide flexibility for permanent energy transfer requirements, while the specified **Light Bronze finish** complements contemporary and premium architectural door schemes.

Product Features

- **Completely concealed hinge system** for clean, uninterrupted door designs
- Features **permanent energy transfer** through the hinge system
- **Individual connection adapter options** for different installation requirements
- Designed for **unrebated heavy-duty doors**
- Accommodates **claddings up to 8mm on both sides**
- Suitable for **timber, steel and aluminium frames**
- Manufacturer-specified **100kg load**

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capacity
- **3D adjustable** for precise door alignment
- **Side adjustment:** +/-3mm
- **Height adjustment:** +/-3mm
- **Compression adjustment:** +/-1mm
- Features **maintenance-free slide bearings**
- Overall dimensions of **200 x 32mm**
- Provides an opening angle of up to **180°**
- Specified in an elegant **Light Bronze finish**

Product Benefits

- **Permanent energy transfer provides an integrated solution for doors requiring electrical power or signal transfer while preserving a completely concealed appearance**
- **3D adjustment allows accurate side, height and compression correction to achieve precise door alignment after installation**
- **A8 configuration accommodates claddings up to 8mm on both sides, supporting sophisticated flush and cladded architectural door designs**
- **100kg load capacity** provides substantial support for appropriately specified heavy-duty door installations
- **Completely concealed construction** keeps the hinge hidden when the door is closed for clean architectural detailing
- **Maintenance-free slide bearings** minimise routine hinge maintenance requirements
- Compatibility with **timber, steel and aluminium frames** provides flexibility across different architectural door constructions
- **Individual connection adapter options** provide flexibility when configuring the permanent energy transfer system
- **180° opening angle** provides a wide operating range where permitted by the surrounding door and frame construction

Technical Characteristics

- **Product Type:** 3D Adjustable Concealed Hinge with Permanent Energy Transfer
- **Configuration:** A8 - For Claddings up to 8mm on Both Sides
- **Finish:** Light Bronze
- **Load Capacity:** 100kg
- **Overall Length:** 200mm

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- **Door Part Width:** 32mm
- **Frame Part Width:** 32mm
- **Minimum Door Thickness:** 49mm Including Claddings
- **Maximum Cladding:** Up to 8mm on Both Sides
- **Side Adjustment:** +/-3mm
- **Height Adjustment:** +/-3mm
- **Compression Adjustment:** +/-1mm
- **Opening Angle:** 180°
- **Cutter Diameter:** 24mm
- **Collar Ring Diameter:** 30mm
- **Bearing System:** Maintenance-Free Slide Bearings
- **Energy Transfer:** Permanent Energy Transfer
- **Frame Compatibility:** Timber, Steel & Aluminium
- **Door Type:** Unrebated Heavy-Duty Doors
- **Certifications / Quality Marks:** CE, IFT, UL & Certifire
- **Classification:** EN 1935 / EAD - 4 7 5 1*1 1 —*2 1 12

Applications

The **TECTUS ENERGY 3D A8 Adjustable Concealed Hinge** is designed for **unrebated heavy-duty doors requiring permanent energy transfer** and can be used with **timber, steel or aluminium frames**. Its ability to accommodate **claddings up to 8mm on both sides** makes it particularly suitable for sophisticated flush and cladded door constructions where clean architectural lines are important. The combination of a **100kg load capacity, permanent energy transfer, 3D adjustment and completely concealed installation** makes it suitable for high-specification residential, commercial and architectural door projects incorporating compatible electronic or electrically powered door components.

Property	Value
Finish	Light Bronze
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 & Certifire
Wire Cross Section	0.14 mm²
Max. Voltage (V)	50
No. of Wires	16
Max. Current (A)	0.8