SWS HARDWARE

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Grade 13 Ball Bearing Butt Hinges - 102 x 76mm - PVD Brass - Square Corners

Variant code: 2220.13.PVD

The **Grade 13 Ball Bearing Butt Hinge** is a premium heavy-duty architectural hinge engineered for smooth, reliable door operation in demanding commercial and residential environments. Measuring **102 x 76mm** and finished in an attractive **PVD Brass** coating, this hinge combines exceptional durability with a luxurious brass appearance, making it ideal for high-quality architectural projects and certified fire door installations.

Precision-engineered with **ball bearing knuckles**, the hinge delivers smooth, quiet operation while reducing friction and wear during frequent use. Designed to support doors weighing up to **120kg**, it is **CE marked**, **Certifire tested** and **fire door rated**, providing confidence for use on certified timber fire doors. Available in both **square and radius corner** options, this square corner version offers a clean, modern finish for contemporary door installations.

Backed by a **10-year mechanical guarantee**, the Grade 13 Ball Bearing Butt Hinge is an excellent choice for new-build developments, refurbishment projects and replacement installations. Whilst two hinges are suitable for most standard internal residential doors, fitting **three hinges per door** improves load distribution, enhances stability and helps minimise twisting or warping over time.

Product Features

- Grade 13 ball bearing butt hinge
- Dimensions: 102 x 76mm
- Square corner design
- Premium PVD Brass finish
- Precision ball bearing mechanism
- Maximum door weight: 120kg
- CE marked and Certifire tested
- Fire door rated
- Suitable for commercial and domestic use
- 10-year mechanical guarantee

Product Benefits

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- **Supports doors weighing up to 120kg for reliable heavy-duty performance**
- **Ball bearing construction ensures smooth, quiet operation while reducing hinge wear**
- **CE marked, Certifire tested and fire door rated for trusted safety and compliance**
- PVD Brass finish offers a luxurious appearance with excellent wear resistance
- Square corner design provides a clean, professional installation
- Suitable for both commercial and residential applications
- Installing three hinges helps distribute door weight and reduce twisting or warping
- Backed by a 10-year mechanical guarantee for long-term reliability

Technical Characteristics

- Product Type: Ball Bearing Butt Hinge
- Performance Grade: Grade 13
- Dimensions: 102 x 76mm
- Corner Type: Square
- Material: Stainless Steel
- Finish: PVD Brass
- Bearing Type: Ball Bearing
- Maximum Door Weight: 120kg
- Certification: CE Marked & Certifire Tested
- Fire Rating: Suitable for Fire Door Applications
- Application: Commercial & Domestic Doors
- Guarantee: 10-Year Mechanical Guarantee

Applications

The **Grade 13 Ball Bearing Butt Hinge** is ideal for **offices, schools, hospitals, hotels, apartment buildings, care homes, retail premises and residential properties**. Suitable for installation on **timber fire doors, internal doors and high-use commercial doors**, it provides smooth, dependable operation and long-lasting durability. For standard internal residential doors, two hinges are generally sufficient, while fitting **three hinges per door** is recommended to improve load distribution, increase stability and help prevent door twisting or warping over time.

Property	Value

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Property	Value
Finish	PVD Brass
Material	Grade 201 Stainless Steel
Max Door Weight (kg)	120
Certification	CE Marked & Certifire Approved
Dimensions	102 x 76 x 3mm
Bearing Type	Ball Bearing