SWS HARDWARE

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Grade 13 Ball Bearing Butt Hinges - 102 x 76mm - Matt Black - Radiused Corners

Variant code: 2220.13R.BK

Grade 13 Ball Bearing Butt Hinge is a premium architectural hinge designed to provide smooth, reliable door operation in both commercial and residential environments. Finished in **Matt Black**, this heavy-duty hinge combines contemporary styling with exceptional durability, making it ideal for modern interior and exterior door installations. Certified to **Grade 13** performance standards, it is engineered to withstand frequent use while delivering long-lasting performance.

Manufactured in a **102 x 76mm** format, this ball bearing hinge is available with either **square** or **radiused corners**, allowing it to suit different door preparations and installation requirements. Precision **ball bearing washers** provide smooth, low-friction operation while reducing wear on the hinge, making it suitable for high-traffic applications. Designed to support doors weighing up to **120kg**, the hinge is **CE marked**, **Certifire tested**, **fire door rated**, and backed by a **10-year mechanical guarantee**, giving confidence for both specification and everyday use.

For standard internal residential doors, a **pair of hinges** is generally sufficient. However, fitting **three hinges per door** provides improved weight distribution, enhances stability, and helps minimise the risk of twisting or warping over time, particularly where doors may be exposed to changes in temperature or moisture.

Product Features

- **Grade 13 ball bearing butt hinge**
- **102 x 76mm** hinge size
- Available with **Square** or **Radiused** corners
- **Matt Black finish**
- Precision **ball bearing** construction for smooth operation
- Suitable for doors weighing up to **120kg**
- **CE marked**
- **Certifire tested**
- **Fire door rated**
- Suitable for **commercial and domestic** applications

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- **10-year mechanical guarantee**

Product Benefits

- Smooth, quiet door operation with reduced friction
- Ball bearing design minimises wear and extends hinge life
- Supports doors up to **120kg** for demanding applications
- Choice of square or radiused corners suits different door preparations
- Contemporary matt black finish complements modern interiors
- Fire-rated construction suitable for specification projects
- Long-lasting performance with minimal maintenance
- Installing three hinges helps distribute door weight evenly and reduce twisting or warping over time

Technical Characteristics

- **Product Type:** Ball Bearing Butt Hinge
- **Performance Grade:** Grade 13
- **Hinge Size: 102 x 76mm**
- **Corner Options:** Square or Radiused
- **Bearing Type:** Ball Bearing
- **Finish:** Matt Black
- **Maximum Door Weight:** Up to **120kg**
- **Certification:** CE Marked, Certifire Tested
- **Fire Rating:** Fire Door Rated
- **Guarantee:** 10-Year Mechanical Guarantee
- **Suitable For:** Commercial & Domestic Doors

Applications

The **Grade 13 Ball Bearing Butt Hinge** is ideal for **offices, hotels, schools, hospitals, apartment buildings, retail premises, public buildings and residential properties**. Suitable for **internal timber doors** and other compatible door applications, it provides smooth, durable operation for doors weighing up to **120kg**. Available with **square or radiused corners**, this hinge offers installation flexibility while its **Matt Black finish**, **Grade 13 rating**, **CE marking**, **Certifire testing**, and **fire door approval** make it an excellent choice for modern commercial and residential projects.

Property	Value

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Property	Value
Finish	Powder Coated Black
Length (mm)	102
Height (mm)	76
Material	Grade 201 Stainless Steel
Max Door Weight (kg)	Up to 120kg
Certification	CE Marked, Certifire Tested
Thickness (mm)	3
Product Type	Ball Bearing Butt Hinge
Standards Tested	BS EN 1935:2002
Bearing Type	Ball Bearing
Corner Type	Radius
Drilling Type	Template Drilled