

TECHNICAL DATA SHEET

1. MATERIAL COMPOSITION

The Premier Access Door is made from high-quality **Aluminium Grade 6063-T6** and follows the ASTM B221 standards.

Material Element	Standard Value (%)	Observed Value (%)	Remarks
Copper (Cu)	Max 1.15	0.15	Acceptable
Magnesium (Mg)	0.45 - 0.95	0.45	Acceptable
Silicon (Si)	0.20 - 0.60	0.50	Acceptable
Iron (Fe)	Max 0.60	0.55	Acceptable
Manganese (Mn)	Max 0.15	0.15	Acceptable
Titanium (Ti)	Max 0.10	0.0	Acceptable
Chromium (Cr)	Max 0.10	0.0	Acceptable
Aluminium (Al)	Remainder (~98.2%)	98.2	Acceptable

2. MECHANICAL PROPERTIES

The material undergoes **mechanical testing** as per **ASTM E1252:2011** standards.

Specification	Test Method	Tensile Strength (N/mm ²)	Yield Stress (N/mm ²)	Elongation (%)	Remarks
6063-T6	ASTM E1252:2011	Min 215	Min 170	Min 8	Confirmed

3. HARDWARE COMPONENTS

Component	Material	Finish/Coating
Push Lock	Stainless Steel Spring Latch	-
Allen Key Lock	Brass	Chrome Finished
Screws	Steel	Black Phosphate Coating
Screw Protection Cap	Silicone	Green Colour
Safety Wire Rope	Stainless Steel	1.5 mm Diameter
Snap Hook	Aluminium	With Ferrule

4. POWDER COATING DETAILS

The **RAL 9016** powder coating is applied to ensure durability and aesthetic appeal.

Coating Parameter	Standard Thickness (µm)	Observed Thickness (µm)
Coating Thickness	60 - 70 µm	60 µm



5. FEATURES & APPLICATIONS

- **Features:**
 - High-strength aluminium frame with precision fabrication.
 - Durable **powder-coated finish** for a sleek appearance.
 - Secure locking mechanism for easy access & maintenance.
 - Pre-fitted with **safety wire rope** to prevent accidental falls.
- **Applications:**
 - Used in **gypsum ceiling systems** to provide maintenance access.
 - Suitable for **commercial, residential, and industrial** buildings.
 - Ideal for **HVAC, electrical, and plumbing** access points.

Premier
Access Doors
"Elevating Access Solutions"

