ENGINEERING DRAWING – FLOATING STEEL STAIRCASE (AUSTRALIA PROJECT)

Project Type	Custom Floating Mono Stringer Staircase
Structure	Central Steel Beam + Cantilever Treads
Application	Residential Villa – Australia
Finish	Black Steel + Marble + LED Lighting

1. Main Dimensions

• Floor Height: approx. 3000–3200 mm
• Stair Width: 900–1000 mm
• Tread Thickness: 50 mm (stone finish)
• Step Quantity: 14–16 steps
• Inclination: 30°–35°

2. Structural System

• Central Mono Stringer (steel welded box structure)
• Cantilevered step supports welded to main beam
• Base platform with steel reinforcement frame
• Top landing connection to slab/beam

3. Material Specification

• Main Structure: Carbon Steel (Q235 / equivalent)
• Treads: Marble Stone (custom finish)
• Railing: Tempered Glass + Stainless Steel Handrail
• LED: Integrated warm light strip under treads

4. Fabrication Process

• CNC cutting and precision welding
• Full pre-assembly in factory (as shown in photos)
• Surface grinding and finishing
• Quality inspection before shipment

5. Installation Notes

• Fix base structure first, ensure level
• Install main stringer and align vertically
• Mount treads and adjust spacing
• Install glass railing last
• Electrical connection for LED lighting

6. Engineering Notes

• All dimensions subject to site verification
• Structural calculations required before production
• No modification without engineering approval
• Load capacity designed for residential standards