

PROFESSIONAL INSTALLATION GUIDELINES

Handling & Execution Protocol for 12mm Heavy-Duty Slabs

1. SUBSTRATE FOUNDATION & LEVELING

- Ensure the installation surface or countertop substrate (concrete, marine plywood, or steel frames) is perfectly leveled, clean, and capable of supporting the heavier dead-load of 12mm slabs.
- Check surface flatness with a straightedge; eliminate any humps or depressions before applying mortar or structural adhesive.

2. SAFE LIFTING & MECHANICAL TRANSPORT

- Due to the higher weight class of 12mm thick slabs, utilize specialized lifting equipment, vacuum suction lifters, and A-frame dollies during transport and placement.
- Avoid dropping edges or putting concentrated stress on corners during positioning.

3. HIGH-PERFORMANCE BONDING & BUTTERING

- Select polymer-modified C2TE or S2 grade structural tile adhesives designed for large heavy-format porcelain/sintered slabs.
- Apply the double-buttering method (coating both the substrate and the reverse side of the slab) to achieve 100% adhesive transfer and prevent voids.

4. JOINT SPACING & COUNTERTOP FABRICATION

- For wall and floor installations, maintain a minimum joint gap of 2mm to accommodate minor structural shifts.
- For countertop cutouts (sinks and hobs), ensure proper stress-relief radius corners are diamond-cut to prevent localized cracking.

5. CURING & POST-INSTALLATION CARE

- Allow the adhesive and grout to cure completely for a minimum of 48 to 72 hours before placing heavy loads or countertops into active service.
- Clean residual mortar using neutral pH cleaning agents; avoid harsh hydrofluoric acid solutions on finished surfaces.