

Scenario ID	Installation Scenario	Primary Challenge	Solution 1 (Primary)	Solution 2 (Alternative)	Solution 1: Image Examples	Solution 2: Image Examples
S-01	Exposed Wood Beams – Properly Spaced	Beams are accessible and spaced correctly.	Mount directly onto two adjacent beams.	If the dimensions and load capacity of a single beam are suitable, it can be installed on a single supporting beam.		
S-02	Exposed Wood Beams – Non-Standard Spacing	Beams too far apart or too close for bracket base.	Install a Mounting Board: Secure a load-bearing plywood board between two beams to create a continuous mounting surface.	Add Supplemental Beams: Install new wooden beams parallel and adjacent to existing beams to create proper mounting points.		
S-03	Plaster-Covered Wood Beams (Hidden)	Beams are hidden behind drywall/plaster.	Direct Mount to Beam: Use a stud finder to locate the center of a beam and mount the bracket directly onto it.	Install a thin board over plaster and mount into beam through board.		
S-04	Hidden Beams +Non-Standard Spacing	Hidden beams are also spaced too wide/narrow.	Build a "#" Grid: Construct a secondary grid of beams between the primary beams to create multiple, reinforced mounting points.	Create a Mounting Panel: Build a sturdy panel using a load-bearing plywood backer and 2"x4" crossbeams fastened to the primary beams, then mount to the panel.		
S-05	Sloped or Vaulted Wood Ceiling	Ceiling is angled, but TV must be level.	Build a Level Platform: Construct a level box or platform using triangular wooden blocks attached to the sloped beams.	Use a Drop-Down Frame: For high vaults, build a vertical frame suspended from the high point to bring the mount to the desired height and level.		
S-06	Concrete Ceiling (Plaster Finished)	No wooden structure; only solid concrete.	Direct Heavy-Duty Mounting: Use an ultra-heavy-duty bracket designed for concrete and mount it directly using a large number of high-quality concrete anchors.	Mount a load-bearing plywood Backing Plate: Securely anchor a large load-bearing plywood board to the concrete using appropriate fasteners (e.g., concrete anchors), then mount the bracket to the wood.		