

Installation Instructions for PSM Series Wall Panels, PSM Series Slabs, PSG Series Slabs, and SMP 80 Slab

1 Installation

- 1.1 Installation shall comply with the approved construction documents, the manufacturer installation instructions, this TER, and the applicable building code.
- 1.2 In the event of a conflict between the manufacturer installation instructions and this TER, the more restrictive shall govern.
- 1.3 Installation, support and structural detailing required for connections will be provided by GCT for each project to assure a proper load path to the foundation.
 - 1.3.1 Example details can be found in Appendix A of these installation instructions.
 - 1.3.2 Details shall be evaluated by the building designer for applicability to a specific building.
 - 1.3.3 Installation shall be performed in accordance with the manufacturer installation instructions.
- 1.4 Support for GCT panels (i.e., foundation walls, footings, etc.) must be level and free of dirt and loose material.
- 1.5 GCT panels shall be installed and aligned in accordance with the plans designed and submitted to the building official per Section 12 of TER 1202-12.
- 1.6 The high-strength mortar is applied to each face of the GCT wall panels and the underside of floor assemblies covering the welded wire mesh.
 - 1.6.1 Mortar thickness is per the approved plans with a minimum cover of 1" ($\frac{3}{4}$ " + $\frac{1}{4}$ ") over the wire mesh.
 - 1.6.2 The tolerance is minus $\frac{1}{4}$ ".
- 1.7 The high-strength mortar shall be applied using a low-velocity application process in accordance with the manufacturer installation instructions and TER 1202-12.
- 1.8 Where required, special inspection of the mortar application shall be in accordance with IBC Section 1908.1 and IBC Table 1705.3.
- 1.9 Where required, continuous inspection of poured concrete shall be in accordance with IBC Section 1705.3.

Appendix A

Miscellaneous Floor Slab, Foundation Wall, Floor Wall, and Roof Construction Details

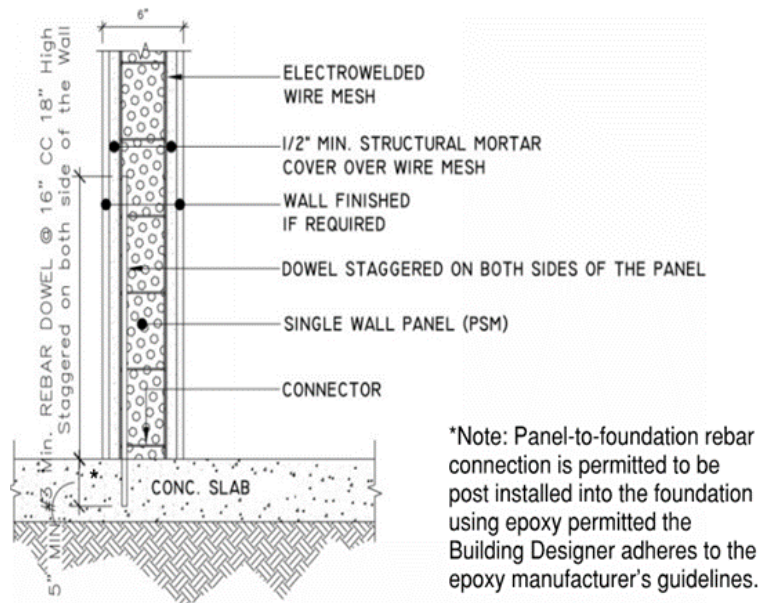


Figure A-1. Example of GCT Panel Connection to Interior Slab on Grade

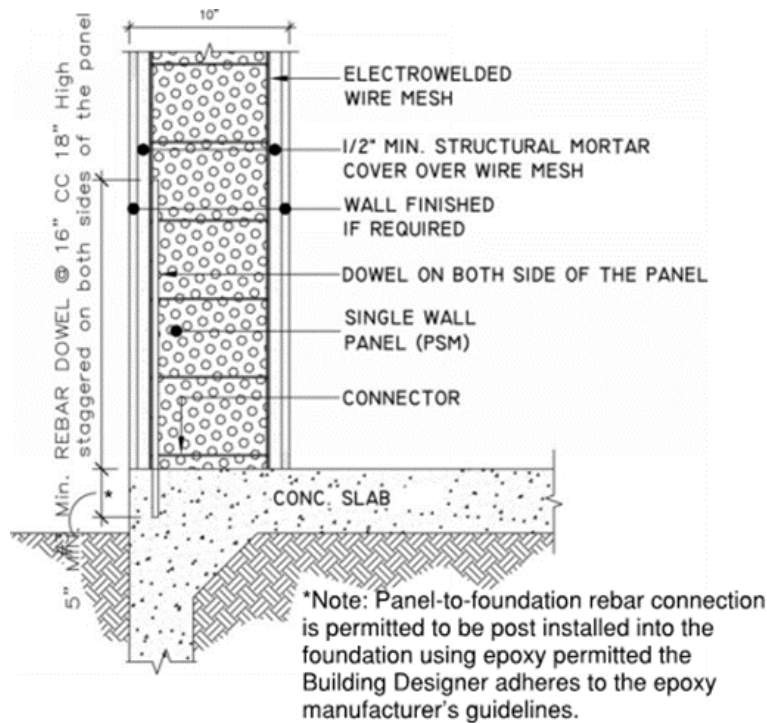


Figure A-2. Example of GCT Panel Connection at Exterior Turned Down Slab Footing

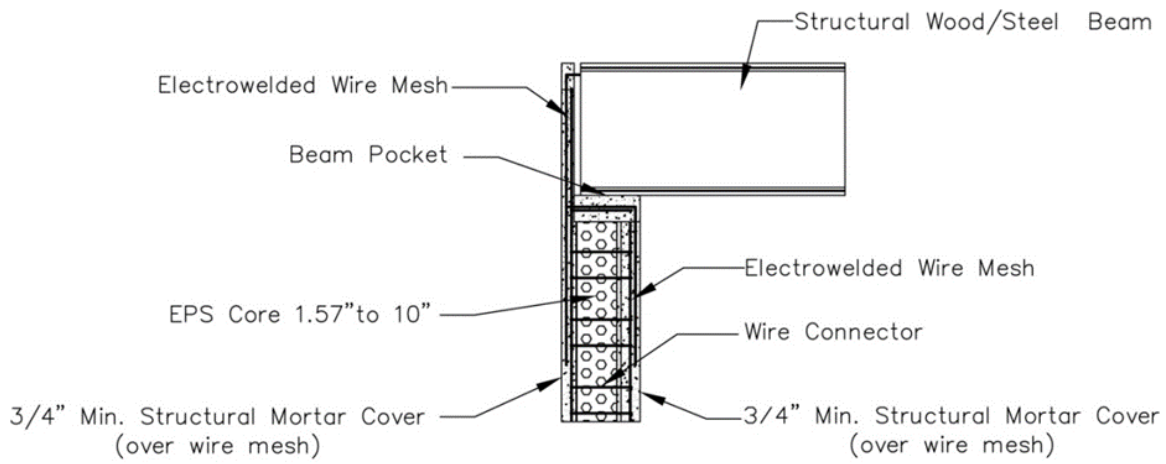
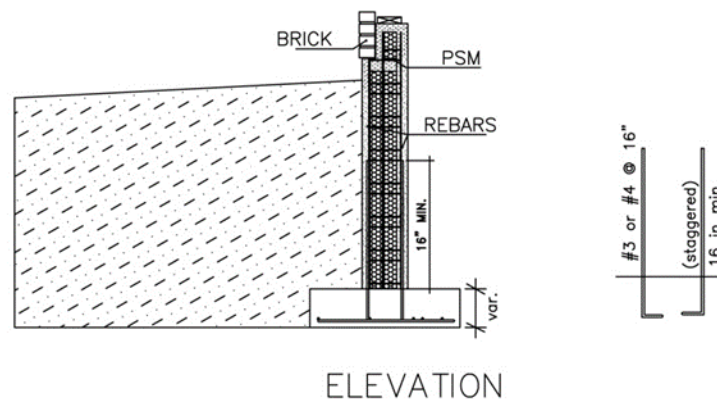


Figure A-3. PSM Wall Section with Beam Pocket



ANCHORING TO FOUNDATION (PSM) WITH BRICK VENEER

Figure A-4. Foundation Anchoring to PSM Wall with Brick Veneer

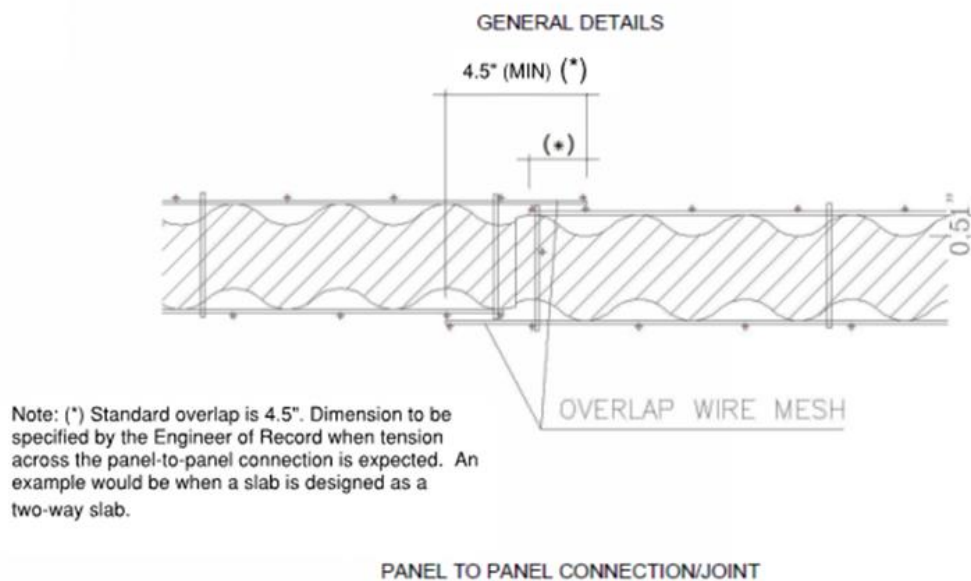
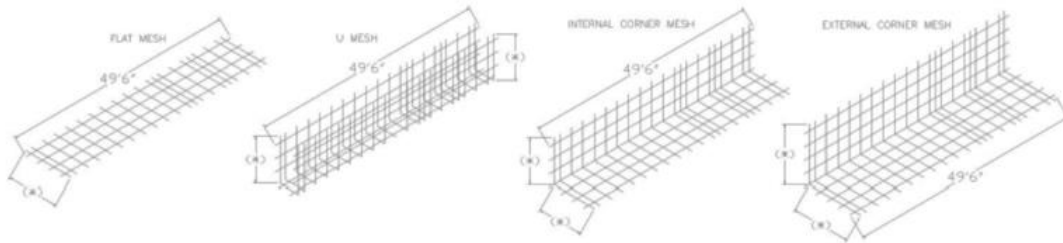


Figure A-5. Panel-to-Panel Connection/Joint



Note: (*) See Table 1a for standard mesh sizes. Customizable mesh sizes are available upon request, contact GCT for more information

Figure A-6. Typical Types of Mesh Used for Reinforcement/Connection

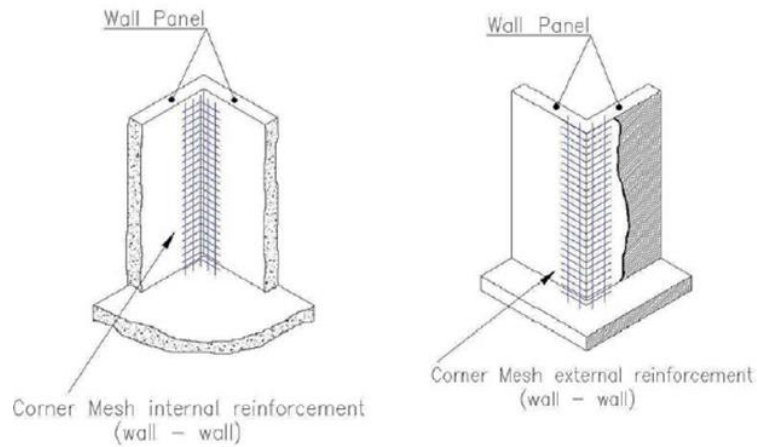
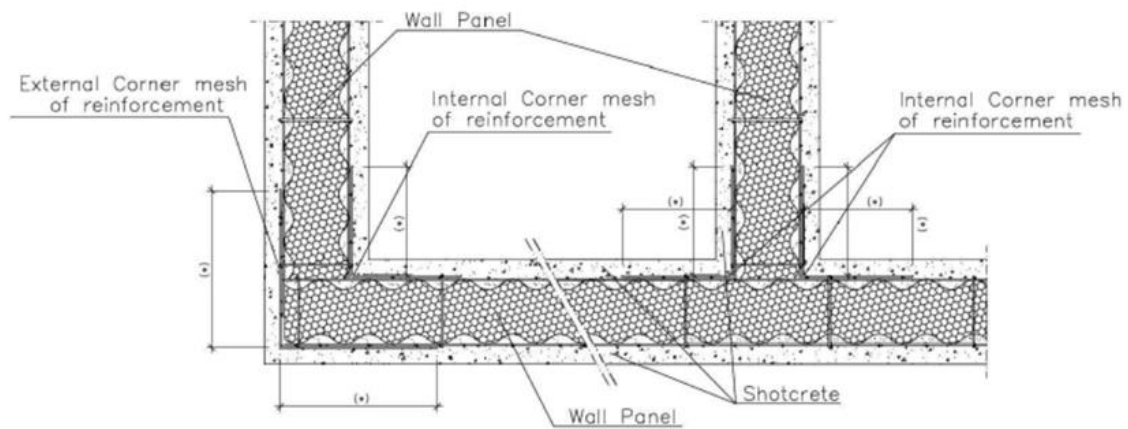


Figure A-7. Corner Mesh Details



Note: (*) Customizable mesh sizes are available upon request, contact GCT for more information

Figure A-8. Internal Corner Mesh Reinforcement

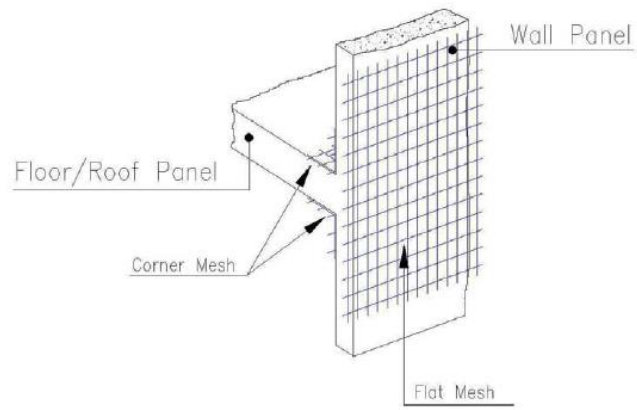


Figure A-9. Exterior Panel to Floor/Roof Panel Connection

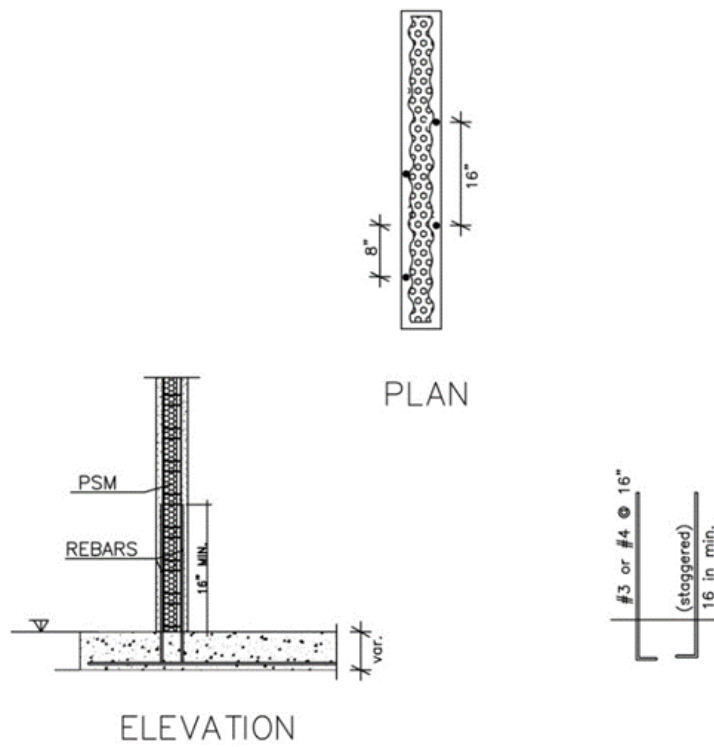


Figure A-10. Foundation Anchoring to PSM Wall

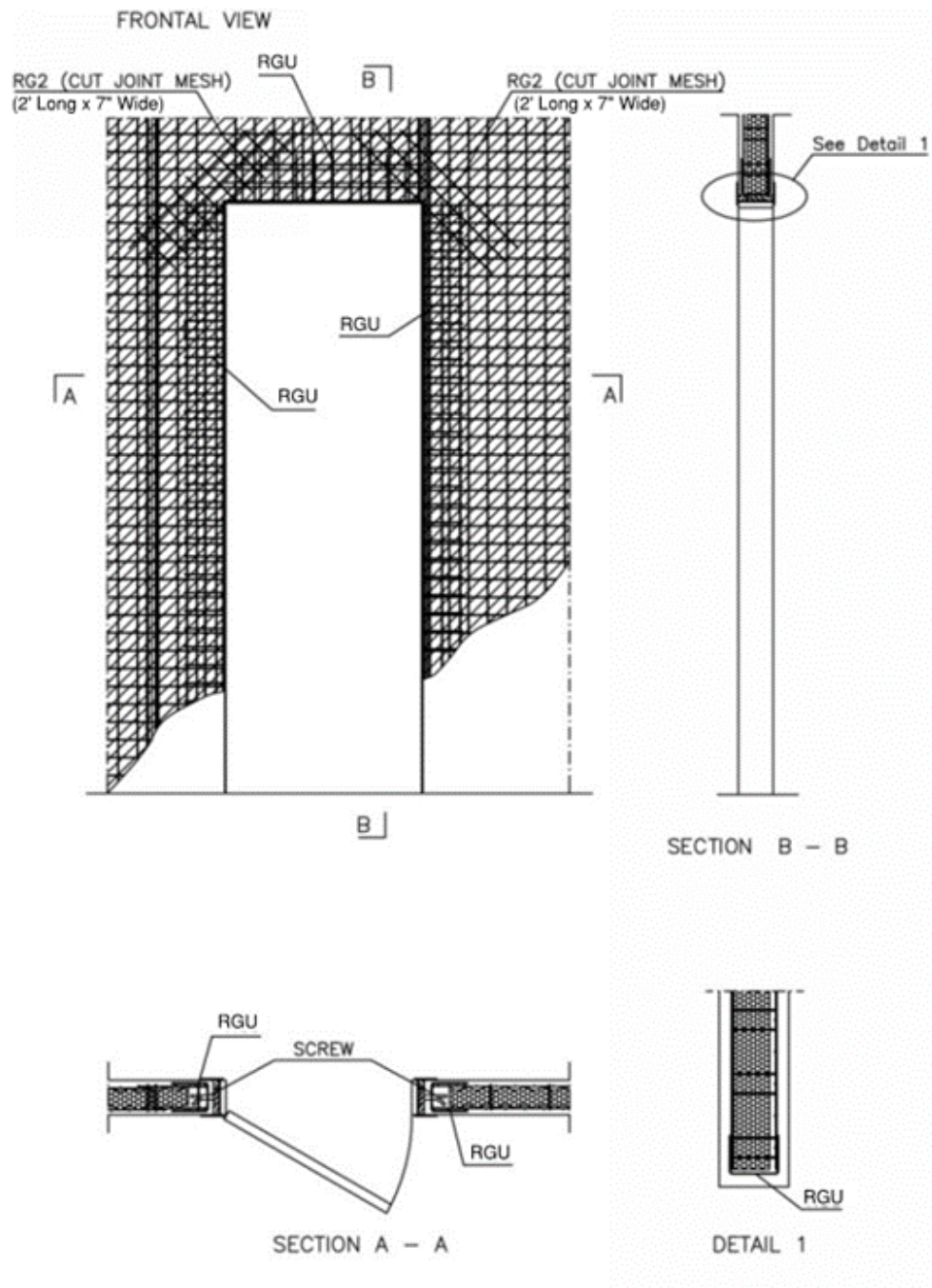
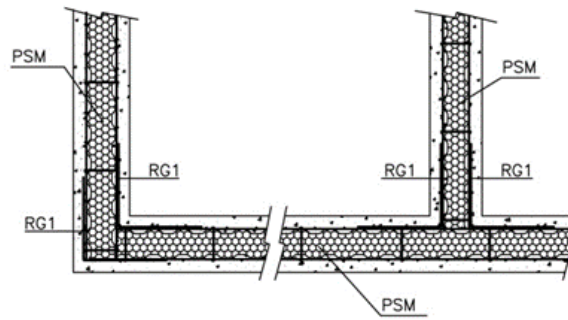


Figure A-11. Opening Reinforcement for a PSM Wall



WALL PANEL JOINTS (horizontal section)

Figure A-12. Wall Single PSM Panel Connection

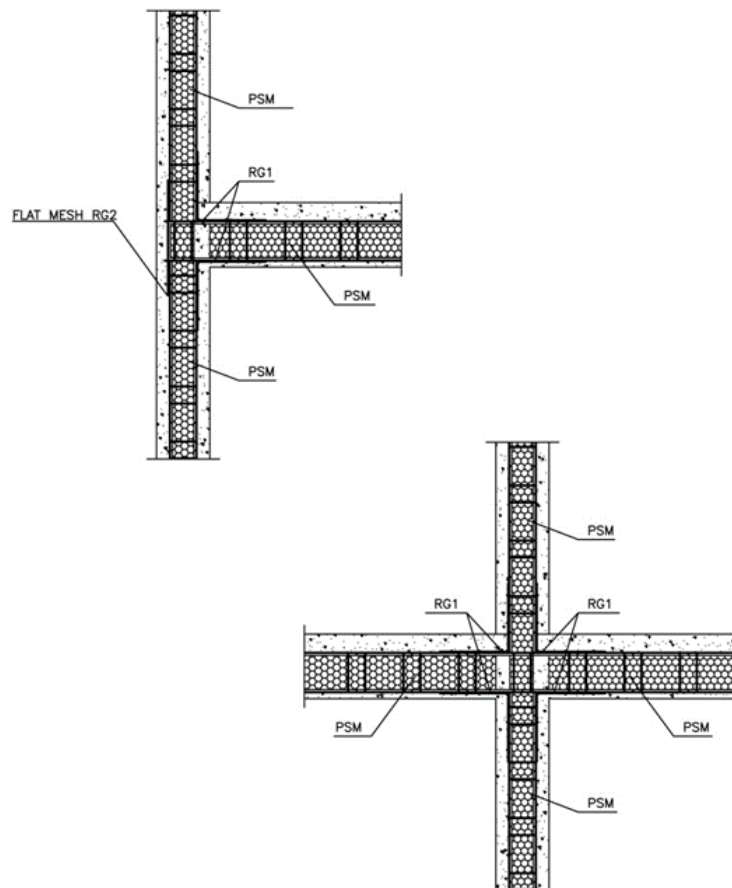


Figure A-13. PSM Slab to PSM Wall Connection - Plan View

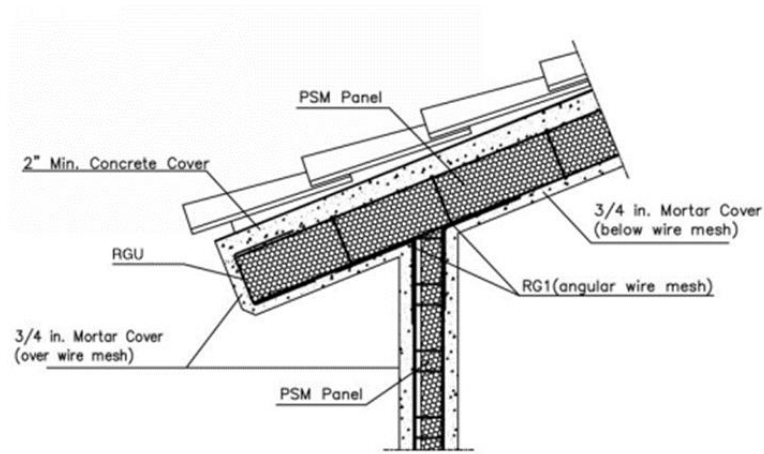
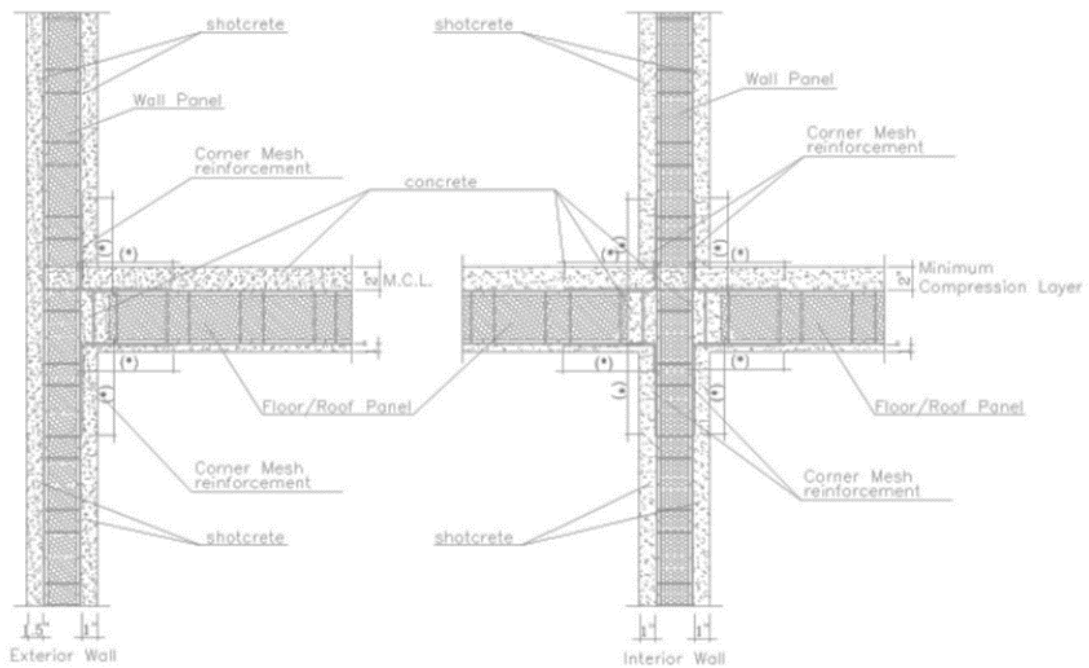


Figure A-14. PSM Wall to PSM Roof Connection



Note: (*) Customizable mesh sizes are available upon request, contact GCT for more information

Figure A-15. Wall Panel to Floor/Roof Panel Connection

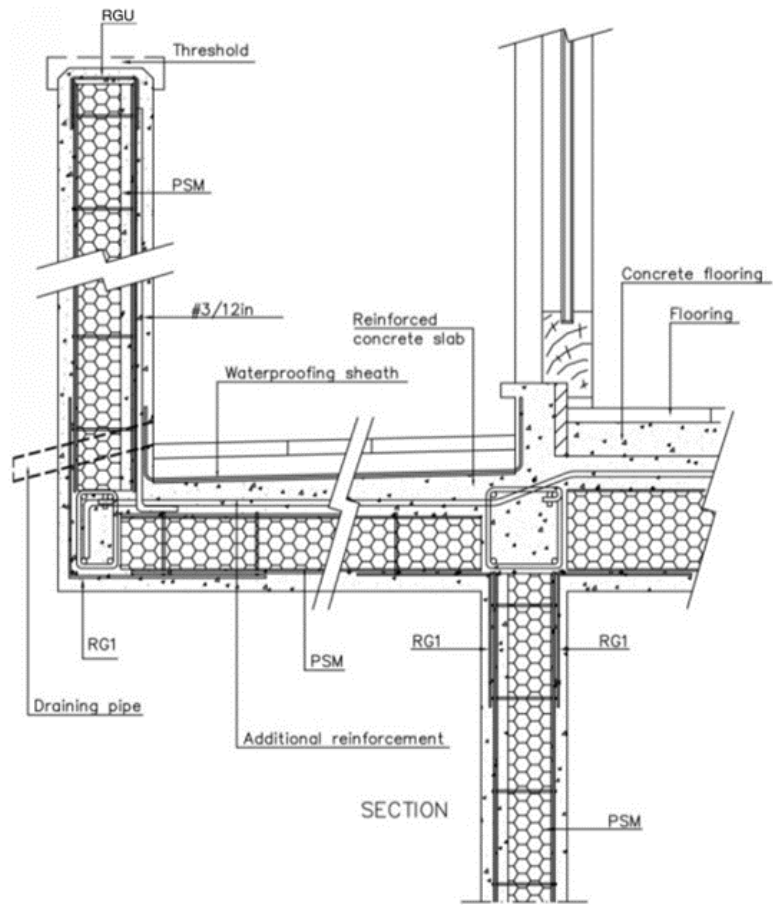


Figure A-16. Balcony with PSM Walls

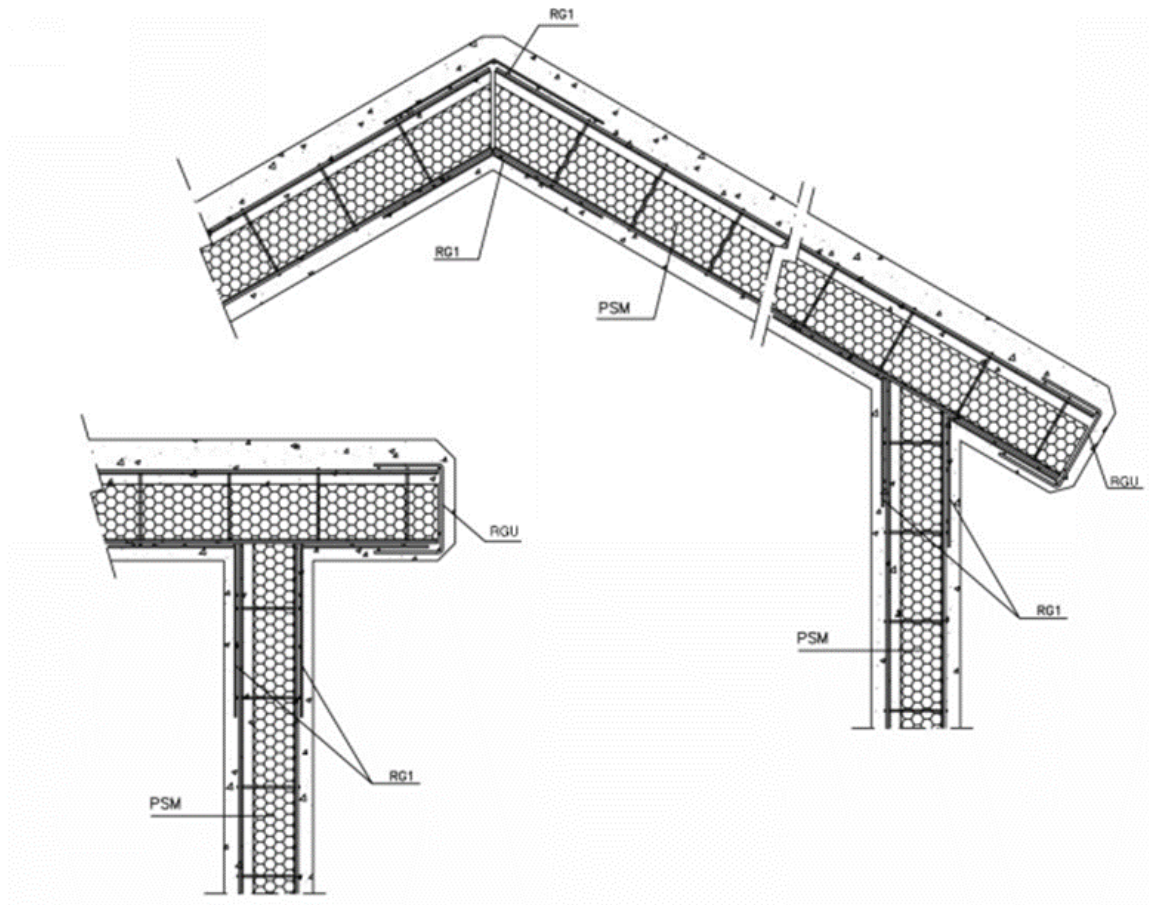


Figure A-17. PSM Roof Connection to PSM Wall

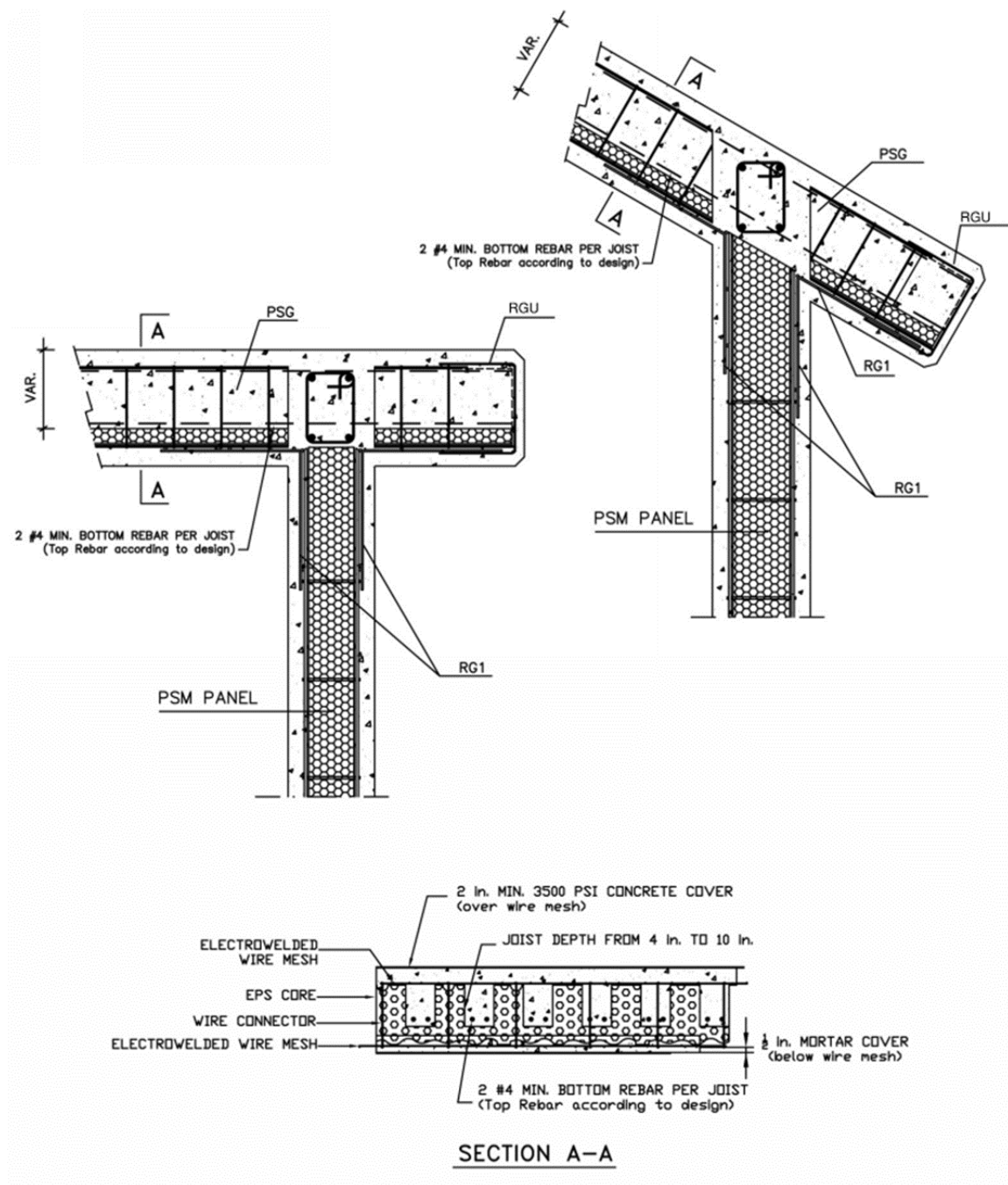


Figure A-18. PSG Roof to PSM Wall