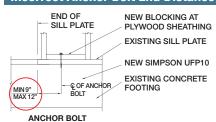


Six ESS Construction Mistakes to Avoid

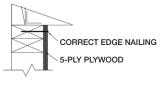
(First and foremost: Do not start construction before approval by ESS)

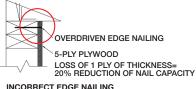
Incorrect Anchor Bolt End Distance in Mudsill





Nails Overdriven or Misplaced



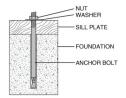




CORRECT EDGE NAILING

INCORRECT EDGE NAILING

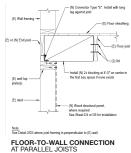
Bolts and Nuts Improperly Installed

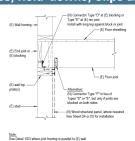




- Install bolts with proper diameter, embedment, edge distance, and with approved washer. Confirm acceptability with building department.
- · Bolts should be flush with the top of the nut.

Use of Non-Approved Angles, Hold-downs, Clips and Foundation Plates





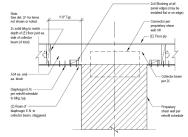
- FEMA P-1100 requires installation of pre-approved hardware with minimum capacity values.
- · Do not substitute non-approved hardware.

FLOOR-TO-WALL CONNECTION AT PERPENDICULAR JOISTS Installation of Anchor Bolts into Brick or Unreinforced Masonry Foundations



- FEMA P-1100 requires that the house have a continuous concrete perimeter footing and concrete slab on grade in the garage area.
- · Brick and unreinforced masonry foundations are not allowed.

Only Use Manufacturer Specified Anchors in Proprietary Hardware and Elements



- Proprietary hardware must be installed per the manufacturer's requirements.
- Check the manufacturer's requirements for approved concrete/masonry/steel anchors.

FLOOR CONNECTION AT PROPRIETARY SHEAR WALL FLOOR FRAMING PARALLEL TO GARAGE FRONT