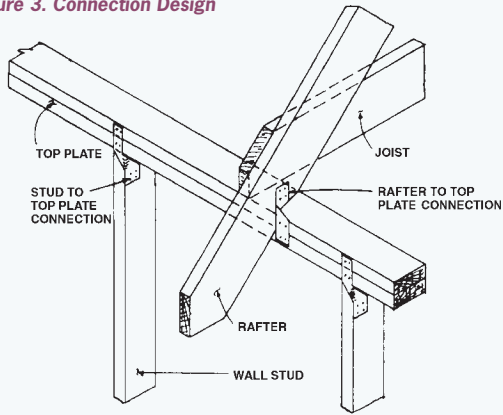


- Yes No
- Connection Design.** Are member connections (Figure 3) and fasteners adequate to carry loads from the design wind velocity or higher velocities established for the area?
 - Wall Bracing.** Is diagonal wall bracing or properly attached plywood wall sheathing included to resist high lateral loads on the structure?
 - Corrosion.** Are bolts, straps, plates, nails, and all other metal fasteners hot-dip galvanized or otherwise protected from corrosion?

Figure 3. Connection Design



ROOFING, SIDING, AND TRIM

- Yes No
- Roofing System.** Can you determine whether the roof has been adequate in previous high winds?
 - Built-up Roof.** Are all layers properly adhered to previous layers and to the structural roof itself? Has loose gravel been eliminated from the roof to avoid damage to windows and other structures during high winds?
 - Shingles.** Has shingle exposure been decreased and fasteners added to reduce high uplift pressure on roofs?
 - Securely Attached Corners and Edges.** Have the corners and edges of shingles, roofing material, siding, and any other building elements been securely attached to prevent loosening during high winds?
 - Roof Panels.** If roof panels are used, have they been securely attached to the structural frame to resist design uplift pressures?
 - Wall Siding.** Has the wall siding been attached properly to withstand design wind velocities?
 - Shutters.** Have shutters been included for all glass openings and any other opening that may need protection from high winds? Can shutters be closed quickly and easily?

UTILITIES

- Yes No
- Telephone and Electrical.** Has all wiring been encased in a noncorrosive, watertight conduit? Are all conduits placed to avoid damage due to flooding, erosion, and floating debris? Have junction boxes and breaker boxes been located above flood level and in a place not subjected to driving rain?
 - Water and Sewerage.** Are all water and sewer lines constructed of a noncorrosive material and located to avoid damage and contamination due to flooding, erosion, and floating debris?

QUALITY ASSURANCE

- Yes No
- Plans and Specifications.** Does the contractor have a complete set of detailed construction drawings and specifications that cover all aspects of construction?
 - Contractor.** Is the contractor qualified and experienced in coastal construction?
 - Inspection.** Have arrangements been made to have a qualified registered professional engineer inspect the construction of the building? Have local building regulations been checked to see whether inspections are required?

TEXAS COAST AND SHORELINE

Builder's Checklist

Construction on the Gulf Coast presents many special problems due to great exposure to high winds, floodwaters, erosion, subsidence, and highly corrosive environments.

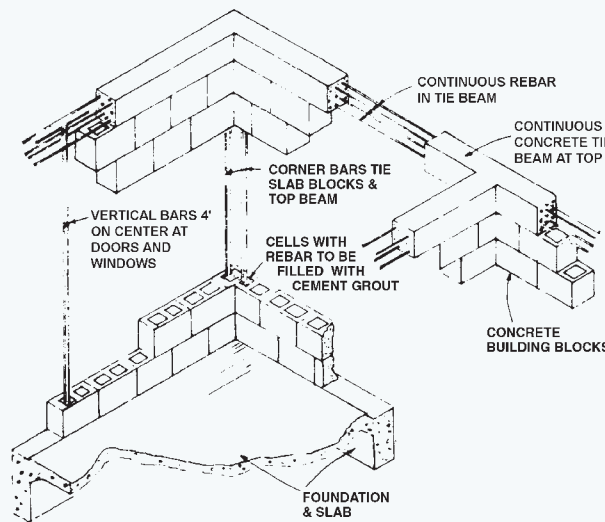
This checklist covers the most frequent problems encountered and can serve as a guide for persons investing in shoreline properties.

However, investors should retain a registered professional engineer experienced and qualified in designing shoreline buildings.

CONCRETE-BLOCK BUILDING CONSTRUCTION

- Yes No
- Design.** Has the structure been designed by a registered professional engineer to resist pressures and suction forces of the design wind velocity established by the city or county or to resist possible higher storm velocities?
 - Vertical Wall Reinforcement.** Have vertical reinforcing steel and concrete (Figure 4) been included at corners, openings, and regular intervals along walls without openings?
 - Bond Beam.** Has a properly designed reinforced-concrete bond beam, which will resist uplift forces, been provided at the top of the wall continuously around the structure?
 - Roof Anchors.** Has the roof system been securely anchored to the bond beam to resist uplift forces due to the design wind velocity?
 - Tie to Foundation.** Has vertical wall reinforcement been adequately tied to the foundation and to the bond beam to form a continuous tie from the foundation to the roof?

Figure 4. Vertical Wall Reinforcement



For Additional Information on Shoreline Construction

Bureau of Economic Geology
512-471-1534
www.beg.utexas.edu

Texas General Land Office
1-800-998-4GLO (-4456)
www.glo.state.tx.us

Office of the Attorney General of Texas
512-463-2100
www.oag.state.tx.us

U.S. Army Corps of Engineers
409-766-3004
www.swg.usace.army.mil

Federal Emergency Management Agency
940-898-5127
www.fema.gov

Texas Department of Transportation
1-800-558-9368
www.dot.state.tx.us

Texas Windstorm Insurance Association
512-899-4900
www.twia.org

Governor's Division of Emergency Management
512-424-2138 (during office hours)
512-424-2000 (after hours)
www.txdps.state.tx.us/dem/pages/index.htm

Insurance Information Institute
212-346-5500
www.iii.org



