Garage Shear Wall

- Simpson EPC44
- 4"x4" Posts Required
- Simpson HD5 Holdowns W/ 3/4" bolts or use Simpson PA28 W/ 24-16d nails or equal
- Continuous Grade Beam FTNG. W/ 2-#4 Rebar 90 deg. hook into stemwall or curb holdowns is required.
- Double Top Plate
- HDR Beam Span of Door(s) per plan
- Simpson PC44
- 2'-0" Min. 4'-0" Max.
- 1/2" CDX Plywood Each Face W/8d Nails @ 3" O.C. at edges
- (2) 3/4" x 10" A.B. 1 each side
- 4" Min. Concrete Slab
- Note: Details are adequate for garage width 28'-0" Max. Depths to 30'-0" Max. Single Story 6:12 Pitch. This is required at both corners of garage.
10d Nails @ 3” O.C. each way @ header

Garage DR HDR See Plan For Size. Extend HDR to end of panel

DBL Top Plate

2 --Simpson, ST6224 Both Side’s (4) total

4”x6” Studs

Full HT Sheathing (Min 1/2” CDX Ply or OSB) Nail 3”O.C. @ field & 12” in field w/8d nails.

Block & Nail all Horiz joints in sheathing

2-Simpson HPAHD22 w/ 21-16d common

Typical Footing

Corner Framing

DETAİL, Garage
Elevation Shear Panel

2-5/8” x10” Anchor Bolts min. 7” embedment

4”x6”
DBL Top Plate

Garage Door HDR.
Extend to Corner
(Typ. 4x12 Unless noted)

Garage Door Opening Full Height
1/2” CDX Plywood shear panel w/8d nails @ 3” O.C. @ edges & 12” D/C interior studs
(10’ Max. wall Ht.)

(2) 2x4 Studs (Adjust to HDR. Width)

Countersink Bolts (all locations)

2x6 PT Sill Plate W/1/2” A.B within 12” of corners

#4 Bars @ 24” O.C. & Holdown

#4 Rebar @ 24” O.C.

(3) #4 Bars (Extend Bars 48” beyond last holdown.)

8” Thickened slab @ Door

Cont. Conc Footing

SHEAR WALL @ GARAGE
SHEAR WALL HOLDOWN DETAIL
(Strip Tie around Floor Framing)
(T=4990 Lbs)
2" x 6" Blocking

Top Plate

Garage Header

Simpson MSTA36 Strap
Tie W/26 10d nails

NOTE: 36" Simpson CS16 straps may be used in lieu of MSTA straps

Simpson PHD5
Holdowns w/Simpson SSTB24 Anchor bolt

(1) #4 Bar at top of wall

Extend bent #4 dowel up wall @ 12" O.C.
EDGE NAIL SHEATHING TO HOLDDOWN CHORDS AND TO TOP PLATES

SOLID BLOCKING AT ALL UNSUPPORTED PLYWOOD EDGES PER SHEARWALL SCHEDULE

P.T.D.F SILL PLATE WITH ANCHOR BOLTS PER PLAN

HOLDDOWN ANCHOR

GRADE BEAM OR CONTINUOUS FOOTING—REFER TO PLAN

1. MAINTAIN 3/8" MIN. EDGE DISTANCE FROM PLYWOOD SHEATHING TO NAILS.
2. EDGE NAILING TO BE APPLIED TO ALL PANEL EDGES. REQUIRED NAILING.
3. EDGE NAILING TO BE APPLIED TO ALL PANEL EDGES. REQUIRED NAILING.
4. PLACE FACE GRAIN OF PLYWOOD HORIZONTAL.
5. FOR NON-BEARING WALLS, USE SINGLE KING STUDS.

TYPICAL STUD AND SHEAR WALL