

3.1 45° CORNERS

The NUDURA® product line offers a pre-molded 45° form unit. The form is reversible and is installed in the same manner as a regular 90° corner form unit.

3.2 T FORM UNITS

NUDURA® has a pre-formed T Form unit for all combinations of the available cavity sizes, being 4" (100mm), 6" (150mm), 8" (200mm), 10" (250mm), 12" (300mm). T Form units can be installed at any location along a wall. Additional form support can be provided internally by cutting two pieces of rebar 1" (25mm) longer than the cavity width. Insert one piece at both the top and bottom of the T connection and tie it to an additional piece of rebar at least 20" (508mm) in length, in the main wall. This procedure should be repeated for each successive course. Alternatively, form support can be provided on the exterior of the T.

3.3 FLOOR CONNECTIONS

Various floor connections for different floor types are possible with the NUDURA® wall. Wood joists can be embedded in the concrete, hung using a rim board, installed on a steel angle or a brick ledge extension. Suppliers of ICF accessories also offer various types of floor connections such as anchor tunnels or ICF ledger connector systems.

Other floor systems such as Hambro or hollow core pre-cast can be used and should be installed as per manufacturers specifications.

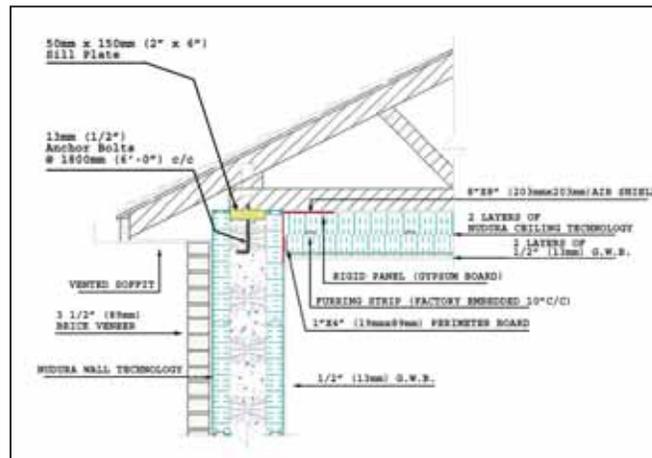


3.4 ROOF CONNECTIONS

The roof system can be connected in various way as per local code requirements. The sill plate is usually recessed in the form to reduce thermal bridging.

Once the plate is installed, using a sill gasket, the installation of the roof assembly is similar to that of conventional construction.

For high wind / hurricane regions, various anchors can be embedded directly into the concrete for attachment of the roof system.



3.5 GABLE WALLS

Gable walls can easily be constructed with NUDURA®. Normally used when heated space is on the inside of the gable. Cathedral or slope ceilings usually require insulated gables, the form units are cut at the desired slope. The reversibility of the NUDURA® wall virtually eliminates the waste of form material.

The panel form with the slide-in webs is an option to avoid cutting the metal pins in the standard webs. This will also help to maintain the structural integrity of the form during concrete placement.



3.6 ROUND TOP WINDOWS

Round top windows or door bucks can be easily created to any size or shape. It is important to have templates or the actual frames on site to create the right size and shape for the frame to be installed at a later time.

There are 3 common methods used to create round top windows or door bucks.

- 1) A thin or pliable veneer is bent to shape and supported with wood or the cut portion of the form unit.



- 2) By inserting multiple layers of EPS flat stock and using the unassembled panels and webs, you can easily create the desired shape or radius. Use a rectangular or square buck system up to where the shaped portion begins. Then place the flat stock that you have pre-cut to the desired shape or radius on the rectangular or square buck in the window opening. Then continue placing the flat panel blocks until you are above your shape. Now you can insert the slide-in webs until it makes contact with the foam billet. You can then trim off excess web that protrudes above the top and start installing regular hinge pin units.



3.7 RADIUS WALLS

Radius or curved walls are relatively easy to erect with factory made (cut to measure) NUDURA® radius wall forms. The inside face of the form (shortest side) is factory cut in a tongue and groove pattern to provide a clean, solid form before, during and after concrete placement.

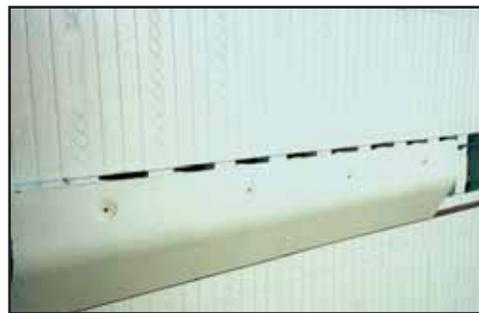
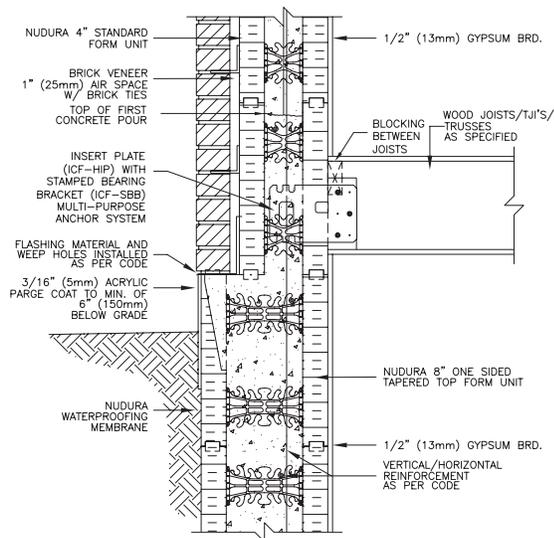
Guide boards or track are usually attached to the footing providing the desired radius. The guide boards can be short pieces of 1" x 4" (19mm x 89mm) or 2" x 4" (38mm x 89mm) set at the right angle or multi-layered sheathing cut with a jig saw to the right radius. Similarly, 2" x 8" (38mm x 190mm) or 2" x 10" (38mm x 235mm) material can be utilized.



3.8 MASONRY VENEER INSTALLATIONS

Various methods allow for the installation of masonry veneer in conjunction with NUDURA® walls.

A tapered form unit allows sufficient concrete width for the masonry veneer, air space and the framed construction on the foundation. (See Detail D-2)



NUDURA® has introduced a Brick Ledge Extension which can be installed at any elevation on the wall. (See Detail D-1 and NUDURA® Technical Bulletin 1)

Also, steel angle can be attached to the wall to support the masonry veneer. (See Details D-3, D-4)