

## Simple Metal-Clad Building – North Rockhampton



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This building was being constructed mid-2005 and illustrates basic construction techniques for metal-clad buildings. The reinforced concrete pad was constructed first, followed by the erection of five fabricated steel I-beam post and roof joist units bolted to the floor. These are linked together with diagonal rods to prevent twisting (wind/cyclone protection) and horizontal purlins to support the sheet metal cladding.



The auxiliary shed (above) has lighter weight posts, etc., and is probably intended as a weather cover for the door. Note the cross-braces between one set of the roof joists on it and on both the roof and the wall in the interior view (below).



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These views show the design of the post and roof joist construction and the purlins. These are all standard components for what is essentially modular construction.

Note the intermediate vertical framing components (on both walls and roof) which help support the purlins and the cap on the roof which provides weather protection for the ends of the roof sheathing.



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Framing details (above) and wall sheathing (below). The wall height has obviously been designed to permit the use of a single length of sheathing material.

