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- A portal frame building comprises a series of transverse frames braced longitudinally.
- The primary steelwork consists of columns and pitched rafters.
- The light gauge secondary steelwork consists of side rails for walls and purlins for the roof.

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Steel portal frame buildings with concrete tilt-up panels are a very common form of industrial building in New Zealand and Australia. The parallel steel portal frames are the major framing elements which support the roof of long-run corrugated steel sheeting attached to cold-rolled steel purlins spanning between the portal frames.

The most common form of portal frame used in the construction industry is the pinned- base frame with different rafter and column member size and with haunches at both the eaves and apex connections (Fig.1). These two important design features of the modern

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Portal frames were first developed during the Second World War and became popular in the 1960s. They are now commonly used to create wide-span enclosures such as; warehouses, agricultural buildings, hangars, entertainment and sport venues, factories, large retail units, and so on, where a clear space is required uninterrupted by intermediary columns.

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