

PRE-ENGINEERED METAL BUILDINGS

BUILDING STRUCTURE, PART II BY MEYERFIRE UNIVERSITY | AUGUST 2022

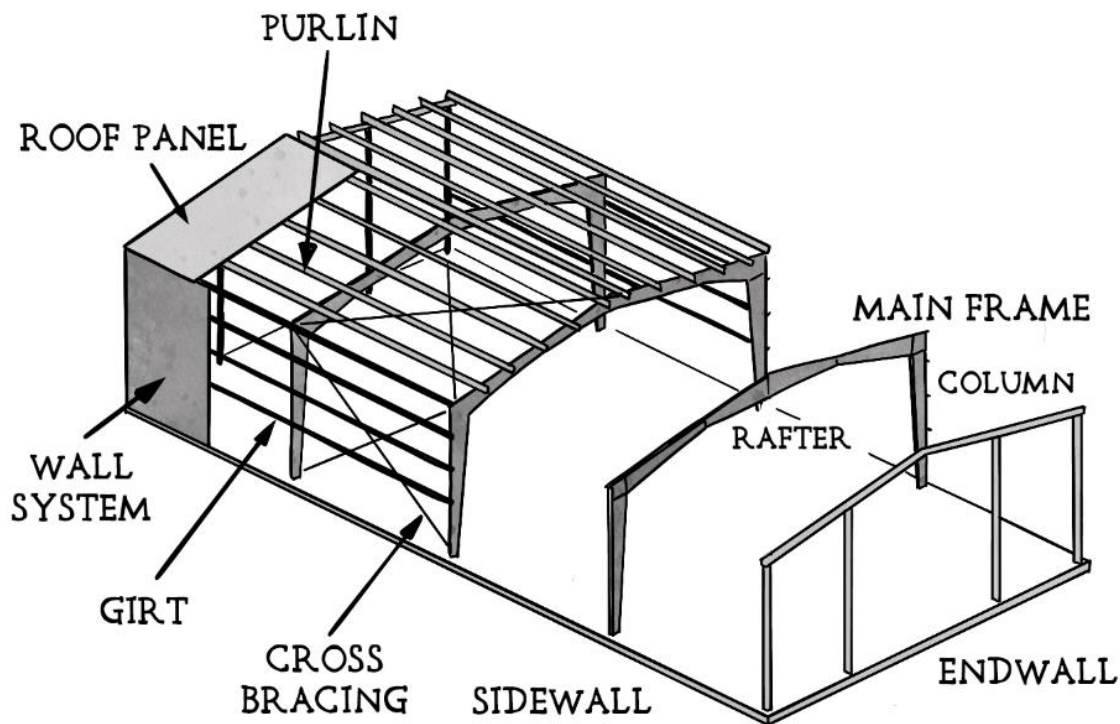
SUMMARY

Pre-Engineered Metal Building (PEMB) is our second type of common steel structures, along with Conventional Steel Buildings. Their purpose is to:

- Maintain simple/consistent structural members
- Be simpler and quicker to design
- Be simpler and quicker to fabricate
- Be very lean (little wasted materials)
- Be as efficient as possible

Pre-Engineered Metal Buildings have several structural components, including:

- Roof Panels (ribbed metal sheets)
- Purlins (support roof panels, span between main-frame rafters)
- Main Frame (has rafter portion along roof and column)
- Cross Bracing (along roof and walls)
- Girt (horizontal members along walls)
- Foundation (could be foundation perimeter or spread footing)



Components of a Pre-Engineered Metal Building

VIDEO LINK

www.meyerfire.com/university/components-of-pre-engineered-metal-buildings

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