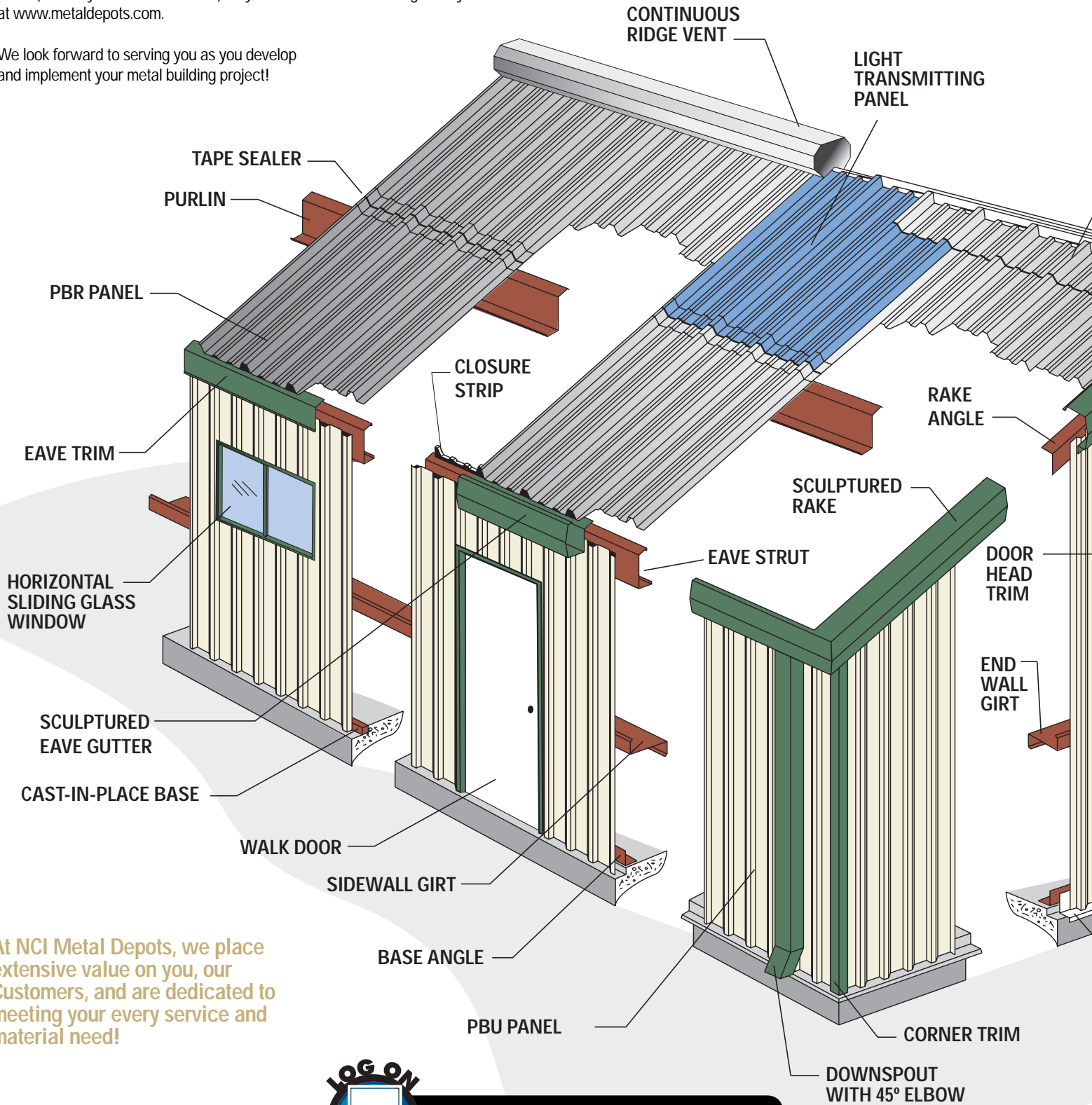


Building Diagram

Commitment to Service

This detail and glossary are provided to assist you in becoming familiar with the structure, components and terminology that are native to the Engineered Metal Building Industry and used by NCI Metal Depots. Other items (that may not be shown here) may be found in our website glossary at www.metaldepots.com.

We look forward to serving you as you develop and implement your metal building project!



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Anchor Bolt Plan A plan view drawing showing the diameter, location and projection of all anchor bolts for the components of the Metal Building System and may show column reactions (magnitude and direction). The maximum base plate dimensions may also be shown.

Approval Drawings A set of drawings that may include framing plans, elevations and sections through the building for approval by the builder.

Base Angle An angle secured to a wall or foundation used to attach the bottom of the wall paneling.

Bay The space between frame center lines or primary supporting members in the longitudinal direction of the building.

Beam and Column A structural system consisting of a series of rafter beams supported by columns. Often used as the end frame of a building.

Bracing Rods, angles or cables used in the plane of the roof and walls to transfer loads, such as wind, seismic and crane thrusts to the foundation.

Building Code Regulations established by a recognized agency describing design loads, procedures and construction details for structures usually applying to a designated political jurisdiction (city, county, state, etc.).

Built-Up Section A structural member, usually an "I" shaped section, made from individual flat plates welded together.

Cee Section A member in the shape of a block "C" formed from steel sheet, that may be used either singularly or back to back.

Closure Strip A strip, formed to the contour of ribbed panels and used to close openings created by ribbed panels joining other components, either made of resilient material or metal.

Eave The line along the sidewall formed by the intersection of the planes of the roof and wall.

Framed Opening Framing members and flashing which surround an opening.

Gable The triangular portion of the endwall from the level of the eave to the ridge of the roof.

Loads...

- **Auxiliary Loads** All specified dynamic live loads other than the basic design loads which the building must safely withstand, such as cranes, material handling systems, machinery, elevators, vehicles, and impact loads.

- **Collateral Loads** The weight of additional permanent materials required by the contract, other than the Building System, such as sprinklers, mechanical and electrical systems, partitions and ceilings.

- **Dead Loads** The dead load of a building is the weight of all permanent construction, such as floor, roof, framing, and covering members.

- **Design Loads** Those loads specified in building codes published by Federal, State, County, or City agencies, or in owner's specifications to be used in the design of a building.

- **Live Loads** Loads that are produced (1) during maintenance by workers, equipment, and materials, and (2) during the life of the structure by movable objects and do not include wind, snow, seismic, or dead loads.

Main Frame An assemblage of rafters and columns that support the secondary framing members and transfer loads directly to the foundation.

Purlin A horizontal structural member that supports roof coverings and carries loads to the primary framing members.

Rake The intersection of the plane of the roof and the plane of the endwall.

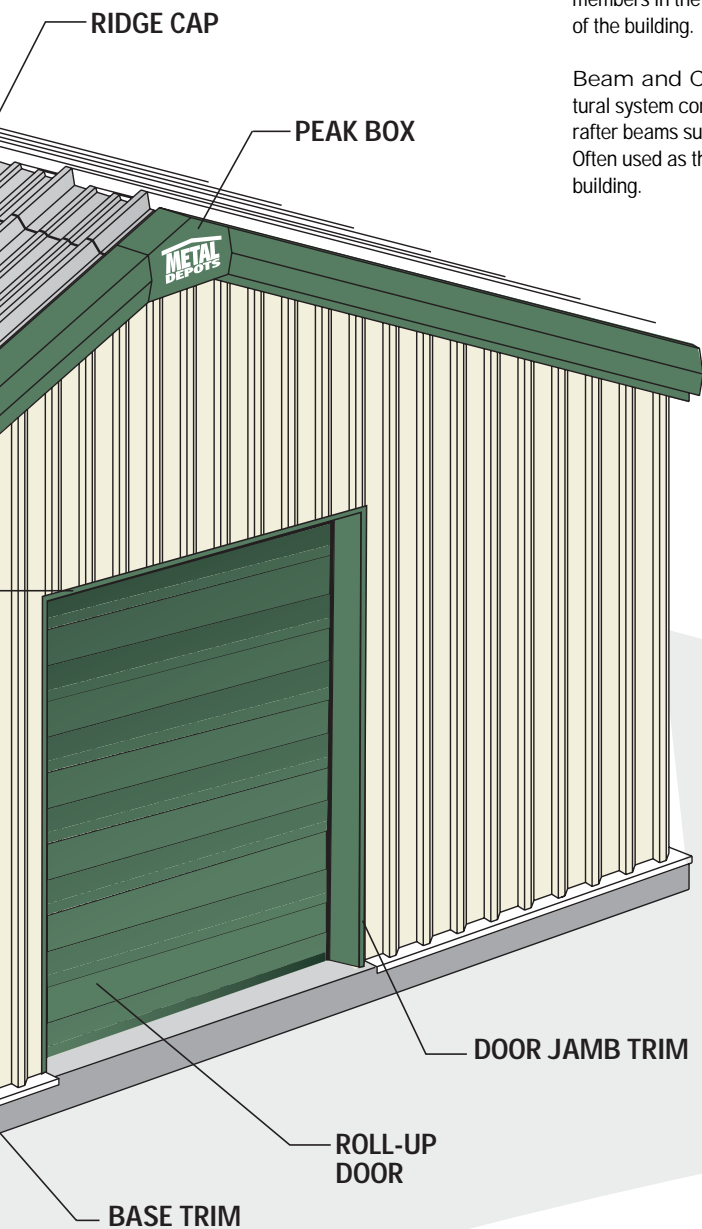
Ridge The horizontal line formed by opposing sloping sides of a roof running parallel with the building length.

Self-Drilling Screw A fastener that combines the function of drilling and tapping.

Self-Tapping Screw A fastener that taps its own threads in a predrilled hole.

Ventilator A roof mounted accessory, which allows the air to pass through.

Zee Section A member cold formed from steel sheet in the approximate shape of a "Z".



Colors shown are for illustration purposes only and do not represent actual colors sold by NCI Metal Depots. Final selection should be made from color chips.