

TRACHTE®



Pre-Assembled
Control
Buildings

Trachte Powerhouse
Combines the
Benefits of a
Site-Built Building with
the Advantages of a
Pre-Assembled
Control Room



The Powerhouse[®] Difference

There's a Reason It's Called a Powerhouse[®]

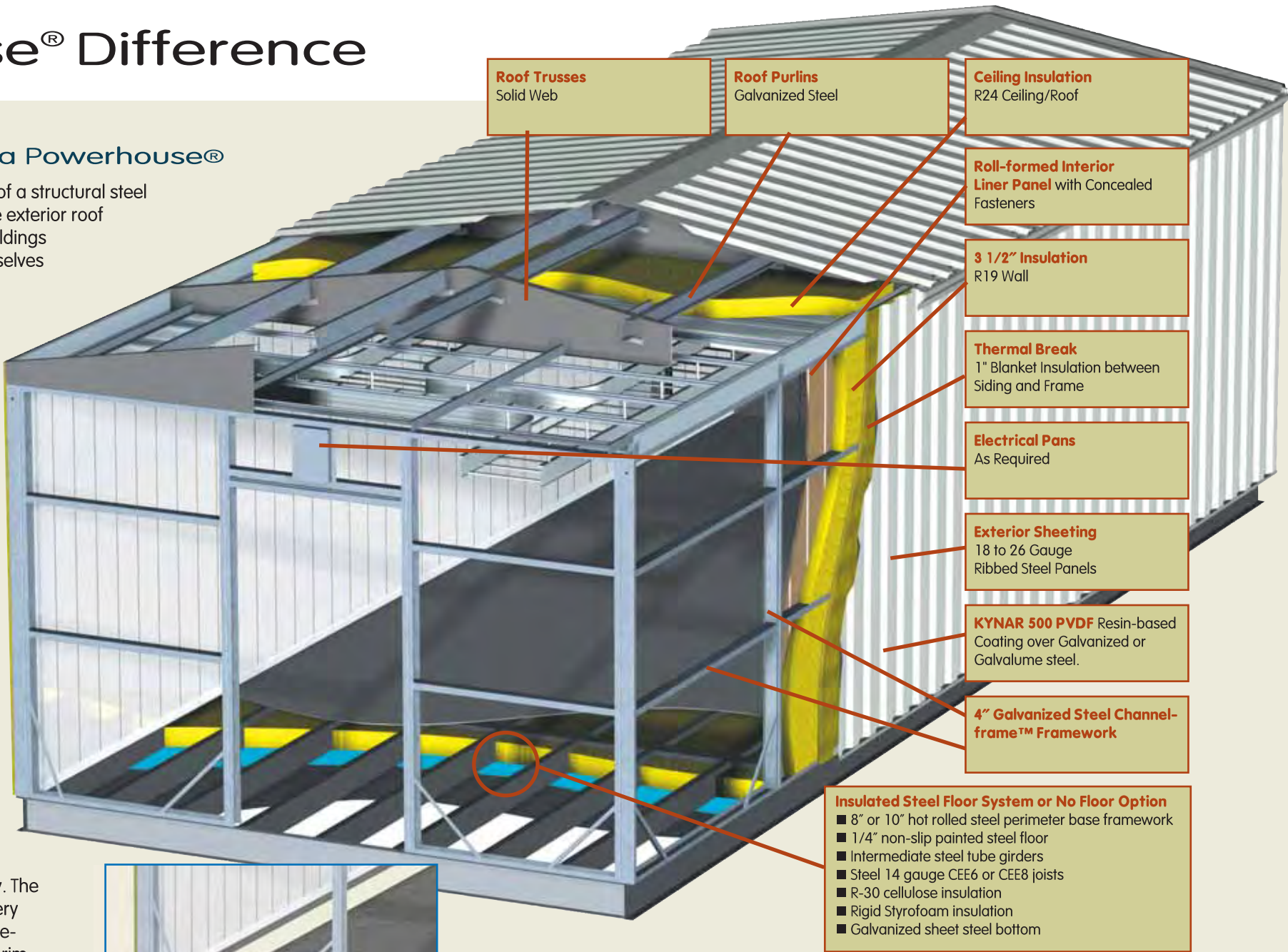
The Trachte Powerhouse[®] offers you the strength of a structural steel framework that meets the design loads before the exterior roof and wall sheeting are installed, exactly like the buildings you work and live in. Other methods market themselves as "enclosures" and rely totally on the exterior and interior sheeting for their structural integrity. Our superior strength, coupled with the highest level of quality, make the Powerhouse[®] the ideal choice for Transmission and Distribution Engineers looking for maximum durability, flexibility and security for their vital protection systems.

Available With or Without a Floor

The undisputed strength of the Powerhouse[®] structural steel framework allows every Powerhouse[®] building to be pre-assembled, with or without a floor. Typically, Powerhouses[®] include a steel structural floor that permits equipment integration in the factory for greater time savings and cost efficiency. The floor systems are designed to accommodate battery and equipment loads and are engineered for placement on a foundation system of concrete piers, perimeter wall, or slab. However, when equipment is to be loaded at the site, the Powerhouse building can be pre-assembled on a perimeter angle, designed to "cap" a site-poured concrete floor, saving the cost of the steel structural floor system yet retaining the benefits of pre-assembly.

Trachte Quality Assurance

Trachte Quality Assurance is a company-wide systems approach to achieve total customer satisfaction. TQA includes all departments and all aspects of our organization and is vigorously supported from the top down. The TQA philosophy stresses the importance of accuracy, accountability, and training to produce the highest quality product and be as cost effective as possible by eliminating waste, mistakes and rework.



No-Floor Option

- Galvanized Structural Steel Framework
- Gable Roof with Standard 2:12 Pitch
- Superior Strength 18-Gauge Mega-Rib Exterior Panels
- Baked-On Kynar-500 PVDF Resin-Based Supercoating over G-90 Galvanized Substrate
- 30- and 40-Year External Finish Warranties
- Architectural Exteriors Available: Brick, Split-Face Block, Stucco, Aggregate Panel and Others

Trachte Powerhouse® Benefits



Trachte Powerhouse® Combines the Benefits of a Site-Built Building

- Building design versatility to meet each requirement.
- “Traditional” building construction with heavy duty structural framework and exterior and interior paneling for 50- to 100-year life.
- Attractive, maintenance-free exterior of deep ribbed 18 gauge industrial metal panel having a baked-on Kynar 500 PVDF resin-based color finish, guaranteed for 30 and 40 years.
- Standard 2:12 roof slope to insure absolute weather tightness for a dry control house environment.
- Available with or without a structural floor.



With the Advantages of a Pre-Assembled Control Room

- Pre-assembled turn-key buildings save money by reducing engineering and procurement costs.
- Pre-assembled modules are factory built, with state-of-the-art precision and control.
- Pre-assembly assures exact delivery dates, permitting accelerated project completion not attainable with on-site construction.
- Pre-assembly minimizes on-site construction time in hazardous substation environments, reducing the chance of safety violations and accidents.
- Pre-assembly permits optional factory integrated control systems.
- Pre-assembly limits subcontracting requirements and the number of trades required.



The Powerhouse® Solution

A Trachte Powerhouse® integrates the permanence and flexibility of a site-built structure with the quality and project management of a factory-built pre-assembled control room. This combination provides “the best of both worlds” for the customer, resulting in a smoother, faster and ultimately more efficient control house build from start to finish.



The Trachte Powerhouse® Solution



Trachte Powerhouses® are available in sizes from 6'x6' to 28'x72'. Every Trachte Powerhouse® is built around a load-bearing Channel-frame™ framework to insure a lifetime of structural durability and permanence. This sturdy framework also affords incredible design flexibility, a large variety of attractive building exteriors, greater insulation values, and steeper roofs that will not leak regardless of the environment. Plus, our framework has trusses on both end walls allowing for hassle-free building expansion.

The Powerhouse® design team includes Electrical Engineers for layout and design support and to supervise building integration. Typical Trachte Powerhouse® specifications and complete drawings are available to facilitate your initial design and engineering.

Options

- Wide choice of Colors, Roof Pitches and Exterior Appearance packages
- Higher Insulation R Value
- Sound Attenuation
- Bullet Resistance
- Firewalls, up to 4-hour rating
- Integration of Customer Equipment
- Over-sized Doors, and Double Doors
- Windows, Roof Curbs, Vents and Framed Openings

Partial Specifications

(Full CSI Specifications are available in electronic format upon request. Contact sales@TrachteUSA.com.)

Design Requirements: Building construction to conform with latest edition of ASCE "Minimum Design Loads for Buildings and Other Structures," the MBMA "Design Practices Manual," the International Building Code, the Uniform Building Code, and the National Electric Code.

Building Framework: Building to be framed with a structured steel Channelframe™ framework, with girts, purlins, eave struts, base channels, and angle braces, with solid web trusses, including the end walls. Framework to be of 10 to 16 gauge galvanized steel.

Roof: Gable roof is standard with specified pitch. Roofing to be 24 or 18 gauge "Mega-Rib" ribbed steel panels, with baked-on Kynar 500 PVDF resin-based finish over a G-90 galvanized substrate. Roof to include ridge cap, and a fully supported 3" overhang.

Insulation: Exterior walls to have a minimum of 3.5" fiberglass batt insulation and a Visqueen vapor barrier. The ceiling shall have a minimum of 6" cellulose insulation and a Visqueen vapor barrier. Entire building to have 1" fiberglass blanket insulation draped over framework as a thermal break before exterior sheeting is installed. The insulation shall provide a minimum of R-19 in the walls, R-24 above the ceiling, and R-30 in the floor.

Exterior Walls: Exterior walls to be 24 or 18 gauge "Mega-Rib" ribbed steel panels, with a baked on Kynar 500 PVDF resin-based finish over G-90 galvanized substrate. Exterior panels to be overlapped and all openings in walls are to be structurally framed, sleeved, trimmed, and provided with drip caps. Exterior wall panels are to be removable from the outside without interrupting on-line service.

Trachte is in constant pursuit of product improvement, and reserves the right to change component parts or procedures at any time to achieve this end. Recent changes may not be reflected in promotional brochures or sample specifications.



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- Motor Control Centers
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Call us to learn about T-RAMS,
 (Trachte Rapid Assembly Modular Shelters),
 our panelized building solution.



Your Partner for Building Solutions

Trachte, Inc. 422 North Burr Oak Avenue Oregon, Wisconsin 53575 800-837-5707 608-835-5707 sales@TrachteUSA.com