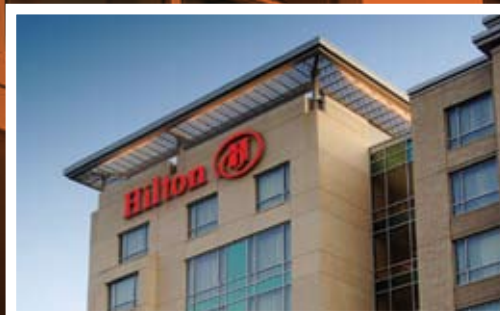




KNIFE RIVER

AN MDU RESOURCES COMPANY



Architectural Cladding

23505 Peoria Road / PO Box 181 | Harrisburg, Oregon 97446
Phone: 541-995-6327
www.kniferriverprestress.com

Knife River Prestress is owned by Knife River Corporation, one of the Top 10 Aggregate Producers in America and one of only three companies in that distinction that remains U.S.-owned and operated.

Knife River Corporation purchased Morse Bros. Prestress, along with the rest of Morse Bros., Inc., in the late 1990's. This acquisition was a natural business transition following tremendous successes on the part of both companies. Combined, Knife River Prestress can offer the enhanced services of Knife River Corporation while continuing to provide customers with local, personalized solutions for their construction materials needs.

Today, our parent company, Knife River Corporation, allows us to tap into the collective expertise of more than 60 companies nationwide, operating in 17 states in the central, western and southern United States, and in Alaska and Hawaii. Knife River Precast's primary facility is located in Harrisburg, Oregon.

We are an award-winning leader in the industry, offering a wide variety of precast/prestressed concrete components for long and short-span highway and rail bridges. We also provide precast architectural and structural products for parking structures, commercial buildings, warehouses, manufacturing plants, multi-unit housing, educational facilities, offices, high-tech and athletic facilities. Over the years we have built a local and national reputation as one of Oregon's leading providers of quality aggregate-based products.

Our professional, experienced staff can evaluate your specific project and provide suggestions and recommendations for the most attractive, durable and cost-effective products possible.

We are proud of our history and the values of quality and customer service our founders wove into the fabric of our culture. Be assured that these fundamental values live on and are a part of every product we produce.

Feel free to drop by and take a look for yourself; the door is always open. For more information please visit our web site at www.kniferiverprestress.com



Architectural Cladding has become the material of choice wherever low maintenance, economy, strength, and aesthetics are important. Architectural Precast Concrete refers to both the interior structural members and to the exterior facade or "cladding" of a structure. The application of various structural and non-structural shapes, and various finishes, colors and textures, contributes to and enhances the form and finished effect of a building.

Architectural Precast Concrete can be shaped, molded, colored, and textured into infinite possibilities, which puts the designer in complete control of the building's cladding design. This makes precast an ideal solution for high-rise and low-rise offices, residential or commercial buildings.

Internally, precast concrete is usually composed of columns and beams, and floor and roof systems that provide support for a building's exterior. Externally, precast concrete is commonly used as "cladding," but can also be used as exterior "form-work" for other concrete structural systems. This exterior Architectural Cladding has a virtually unlimited number of effects that can be achieved with its use. It can be designed with exquisite precision to create depth, light and shade, or shadows. Just changing pigments, sands and aggregates, can produce an unlimited choice of colors. Custom textures can be attained with different surface treatments. Masonry and stone veneers can be cast into the panels at the plant, allowing designers to get the effects that they want and aesthetics that convey quality, permanence, and craftsmanship.

In addition to durability and versatility, Architectural Cladding panels offer an assortment of environmental benefits ranging from erection speed and reduced site disruption, to energy savings and use of recycled materials. Using precast concrete panels can also contribute to a number of LEED credits.

Architectural precast concrete cladding is economical to manufacture, erect, and maintain. It has excellent acoustic properties, is fire resistant, and provides a watertight building skin. It's the material of choice for architects, engineers, developers, and owners with fast-track projects. Components are manufactured at our plant, away from site preparation and foundation work, allowing other trades to start work earlier resulting in reduced financing costs and faster returns on investments.

Architectural Cladding

Benefits Of Using Precast/Prestressed Concrete

There are many building and structural systems on the market today. None offer the cost-saving advantages of precast/prestressed concrete components.

Versatility, Quality, Economy

The versatility of a precast concrete system is unmatched. The components of an entire facility can be precast to precise specifications. Plant manufacturing results in substantial economies through repetitive manufacturing and stringent quality control.

Speed of Construction

Precast and prestressed concrete components are manufactured at the plant and away from site preparation and foundation work, which reduces project congestion and disturbance. Products are shipped to the site as needed and can be erected directly from the delivery truck, greatly reducing time, labor and weather delays.

Attractive Appearance

The pattern, texture, and color variations of architectural precast and prestressed concrete are practically unlimited. The simple, clean shapes of these components project an image of strength and beauty combined.

Fire Resistance

Precast and prestressed concrete's unique fire resistance protects both life and property while reducing insurance rates.

Low Noise Transmission + Energy Conservation

Precast and prestressed concrete components are dense materials that provide both excellent sound attenuation and energy savings. Precast construction allows minimal air infiltration – the thermal mass delays internal temperature changes and reduces peak heating and cooling loads; Sculptured shapes facilitate shading for window areas. In addition, insulation can be cast-in during manufacturing, which increases the U-factor.

Durability

Precast and prestressed concrete is exceptionally resistant to impact, corrosion, weathering, abrasion and vandalism, making it virtually maintenance free.

Cost Effectiveness

Fabrication occurs year-round, regardless of weather and events at the construction site. Work can begin as soon as designs are completed. In a precast/prestressed concrete building, floor-to-floor height is appreciably less, thus reducing the building height and volume and reducing heating and cooling costs. In bridges, superstructures can be kept more shallow to better provide maximum clearance and minimum approach grades.

Longer Economic Life

Precast and prestressed concrete structures give added years of service with a minimum of repairs and maintenance.

