



Test Our Limits...



Specialists in Fiberglass Reinforced Plastic

... reach for the sky.

The challenges of handling and containing critical fluids and fumes are sufficiently daunting in their own right. So why limit yourself to locating, contracting, and coordinating multiple suppliers in your effort to realize a dependable and cost-effective solution?



**DENALI
INCORPORATED**

Specialists in Fiberglass
Reinforced Plastic

ERSHIGS + BELCO + FABRICATED PLASTICS =
DENALI INCORPORATED

Three companies—working as one.

Three companies providing dependable, cost-effective, integrated solutions for the chemical processing ... water and wastewater ... metals and mining ... pulp and paper ... electronics ... and power generating industries.

Three companies—with vast expertise and a strategically dispersed manufacturing and sales network that can be brought to task on your critical project, simply by contacting them.

Three companies—with the problem solving power of a single contact. Just think of the reduced aggravation and increased accountability you'll derive from dealing with a single source. With Denali Incorporated, the sky really is the limit.



ERSHIGS



Manufacturing Company



FABRICATED PLASTICS LIMITED



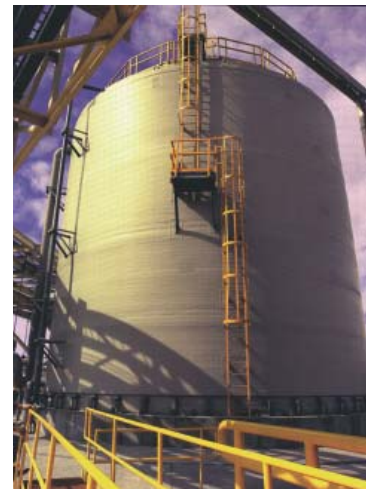
*Tanks
and
Vessels
for all
Applications
and
Budgets*

No Vessel Too Large:

Process and store large volumes of corrosive liquids in field-fabricated structures which are 120 feet in diameter or more. Or select from standard shop manufactured tank and vessel diameters up to 20 feet in diameter. Proprietary construction methods result in super strong, super durable monolithic shells, free of vertical seams; and they eliminate sidewall deformation during lifting and setting. Double-wall and double-bottom configurations furnish secondary containment and simplified leak detection.

On-Site Fabrication and Construction:

Our proven on-site processes are unmatched by anyone, anywhere. Tanks and vessels can be fabricated either in place or at a specially created manufacturing base nearby. On-site fabrication — available for even the largest structures — slashes transportation costs and installation time, and can be smoothly coordinated with the efforts of other site contractors.



No Vessel Too Small:

We manufacture hand lay-up, chop hoop, and helically wound vessels in diameters ranging from 12 inches to 20 feet for corrosive-service tanks. These high quality FRP structures are highly resistant to a variety of chemicals, corrosive environments, and ultra violet light.

Our broad experience meeting critical fluid system requirements encompasses pressure and vacuum applications; seismic loading; polyester, vinyl ester, C-veil, and nexus systems; and vertical, horizontal, flat-bottom, dish-bottom, and cone-bottom configurations.

Our Armourplastic (thermoplastic lined FRP) products incorporate thermoplastic materials such as PVC, CPVC, PP, PE, PVDF, ECTFE, ETFE, FEP & PFA with proven design, forming and welding techniques to provide superior systems which exceed the limitations of unlined FRP.

Denali plants are qualified to meet the industry's most stringent quality standard (ASME RTP-1) for storage tanks and vessels.

Tall and Oversized Structures:



Stacks and Chimney Liners:

Denali designs, manufactures and installs FRP stacks and chimney liners as large as 42 feet in diameter and 1,200 plus feet tall and depending on the chemical environment, we can accommodate for fume temperatures up to 375°F. Configuration options include guy-wired, laterally supported, base supported, caged or hung in tension. Each stack or chimney liner can incorporate thermal insulation, lightning protection, moisture collection and grounding systems.

Bleach Tower Replacements:

Of special interest to the Pulp and Paper Industry is our proven ability to replace unserviceable bleaching towers within outage

times typical of routine maintenance. We will demolish worn-out upflow and downflow towers of tiled steel, and install new FRP towers on the same foundations — all in just seven to ten days under normal conditions. And FRP bleaching towers not only ward off corrosion internally and externally — for extended life and reduced maintenance — they weigh so much less than tile-lined steel that larger towers can be installed with no foundation alterations. That added capacity can pay annual dividends in lower overall operating costs.

Pipe and Ducting Systems:



Abrasion Resistant Pipe:

If flue gas treatment is your first line of defense in the battle for clean air, then Stopline-G2™ abrasion-resistant piping is a powerful ally. Our Stopline-G2™ piping meets increased internal/external abrasion resistance needs in aggressive service applications such as those found in FGD scrubber systems.

Denali tanks and vessels are appropriately designed, fabricated, and tested to meet rigid tolerance standards for heat, pressurization, vacuum, wind and snow loads, and seismic activity.



Pressure Pipe and Ducts:

From the most complicated pressure pipe to the simplest shut-off valve, Denali has the products and the prowess to put all the finishing touches on projects of massive scope. We manufacture and design custom pre-fabricated duct and piping systems to minimize field fabrication and installation costs. Sizes range from 1 inch to 20 foot diameter, either round or rectangular. Our pipe and duct can be made using hand lay-up or filament winding methods and can be rated up to 250 psig pressure or full vacuum conditions. Denali uses a variety of thermoset resins or thermoplastic liner systems matched to the specific temperature and chemical service conditions of your project. Denali is also capable of supplying ASTM D2992 tested pipe or duct to achieve ASTM D2996 and ASTM D2310 standards.



Specialty Products:

Backdraft Dampers, Inlet Vane and Control Fiberglass Dampers:

For use in corrosive airstreams, Denali offers a complete line of dampers. Backdraft dampers are available in round or rectangular configurations and are supplied standard with 316 Stainless Steel external linkage. Inlet Vane dampers are used to pre-spin an air current, maximizing fan efficiency. Denali also offers a complete line of control dampers. Specify our low maintenance models in balancing applications. And for isolation, our AMCA Licensed Model 203 damper, whose performance has been certified by AMCA, is available. Our line of bubble-tight PTFE encapsulated o-ring dampers can meet isolation requirements. All Denali dampers are available with manual, chain wheel, electric and pneumatic operators.



Scrubbers, Carbon Absorbers, Degasifiers, and Demisters:

For chemical recovery, pollution and odor control, Denali scrubbers offer conspicuous quality, efficiency, durability, and value. Our scrubbers handle the full range of dynamic and hydrostatic loads and chemical environments. Also used as absorbers, degasifiers, demisters, air-stripper towers, bleach towers, and in many other processing applications, these systems can be manufactured in-plant or on-site, in almost any size. Supplemental components — covers, internal and external piping, distribution networks and ducting — can be custom fabricated in the shape and configuration your application requires.



Integrated Services:

Feel free to delegate as much as you'd like, Denali can plan, engineer, design, fabricate, and erect all the composite elements of your new critical fluid systems management in real "turn-key" fashion. Or update and maintain them in an existing facility. Tap our wealth of experience and expertise to save time and money — and the aggravation of dealing with multiple sources and sorting out who's responsible should a problem crop up.

Project Engineering:

When you apply our aggregate capabilities at the outset of your project, you assure yourself of the smooth integration and peak performance of all composite structures and systems. Our engineers and designers are the most seasoned professionals in the industry. They are intimately acquainted with the latest advancements in composites technology and processes. We will work cooperatively with your own architects and engineers to ensure the most efficient and cost-effective result.



Construction:

Savings can be realized in ways as basic as systems shipped in prefabricated sub-assemblies to reduce the number of field joints by 90%. In ways as specifically focused as on-site training and supervision of your own fabrication and assembly crews. Or in ways as sweeping as having Denali handle the full slate of contracting functions on your behalf — including component fabrication and installation; civil, mechanical, and structural operations; and ancillary trades and subcontractor tasks.

Inspection, Renovation and Maintenance:

The optimum performance of any system demands upkeep and periodic upgrades. We can inspect, preventively maintain, repair, refurbish, and update existing facilities to help minimize downtime and avoid unplanned interruptions. We work with plant manager and maintenance personnel to provide the technical support that promotes performance and longevity.



Together, Ershigs, Belco and Fabricated Plastics tackle a wide range of process vessels, storage tanks, piping, duct and exhaust stack requirements from critical chemical environments to standard-service water and waste water systems. And with the joint capabilities of all three companies at your disposal, there is no critical fluid or fume system management project whose requirements can't be met with single-source accountability.





Challenge our skills ...

DENALI PRODUCTS

- PIPES & FITTINGS
- ABOVEGROUND STORAGE TANKS
- LARGE DIAMETER TANKS
- SITE-FABRICATED VESSELS
- STACKS AND CHIMNEY LINERS
- ODOR-CONTROL EQUIPMENT
- CARBON ABSORBERS
- DAMPERS
- AMOURPLASTIC VESSELS AND PIPE
- BUTTERFLY VALVES
- HOODS
- MIST ELIMINATORS
- SCRUBBERS
- DUCTING
- MANHOLES
- WETWELLS
- DEGASIFIERS
- THERMOPLASTIC ASSEMBLIES

Denali Incorporated is the world's largest manufacturer of custom-engineered, corrosion-resistant fiberglass reinforced plastic products serving the chemical, petrochemical, water and wastewater, power generation, pulp and paper, and other process industries.

Denali has eight manufacturing plants in the U.S. and Canada in addition to twelve mobile manufacturing facilities which can operate anywhere in the world. Denali Incorporated is the leading specialty FRP contractor for fluid and fume handling products, components and systems.



... utilize our
experience.

Fabricated Plastics:

Fabricated Plastics has been designing and manufacturing custom fabricated tanks, piping, scrubbers, duct systems, stacks and towers utilizing FRP, thermoplastic and Armourplastic® (thermoplastic-lined FRP) materials since 1962. Our products are utilized in the chemical, mining/metal, pulp & paper, power, semiconductor and environmental technologies industries. Our team is committed to providing customers with solutions to their corrosion challenges.

Belco:

Belco manufactures a host of corrosion resistant, fiberglass reinforced products, including – tanks, vessels, pipes, duct, scrubbers, absorbers, degasifiers, dampers, towers and manhole/metering manholes for petroleum, water/wastewater, and industrial applications. Our broad capabilities entail in-house structural and mechanical engineering support, as well as drafting for custom fabrications.

Ershigs:

For four decades, Ershigs has been custom designing and manufacturing fluid-handling structures and piping systems of corrosion-resistant fiberglass reinforced plastic. Our products include tanks and vessels, stacks, chimney liners, scrubbers and spray-header piping, dampers, and ducting systems. Ershigs offers turn-key design, engineering, fabrication, and installation, and can construct fiberglass vessels of up to 120 feet in diameter...on site!



FABRICATED PLASTICS LIMITED

2175 Teston Road, Maple, ON L6A 1T3
Tel: 905-832-8161 Fax: 905-832-2111

www.fabricatedplastics.com



Manufacturing Company

2303 Taylors Valley Road, Belton, TX 76513-0210
Tel: 254-933-9000 Fax: 254-939-2644

www.belco-mfg.com



ERSHIGS

742 Marine Drive, Bellingham, WA 98225
Tel: 360-733-2620 Fax: 360-733-2628

12050 Interchange Drive, Grand Bay, AL 36541
Tel: 251-865-0912 Fax: 251-865-0936

480 Williams Drive, Sarnia, ON N7T 7T1
Tel: 519-332-0540 Fax: 519-337-4025

www.ershigs.com



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