



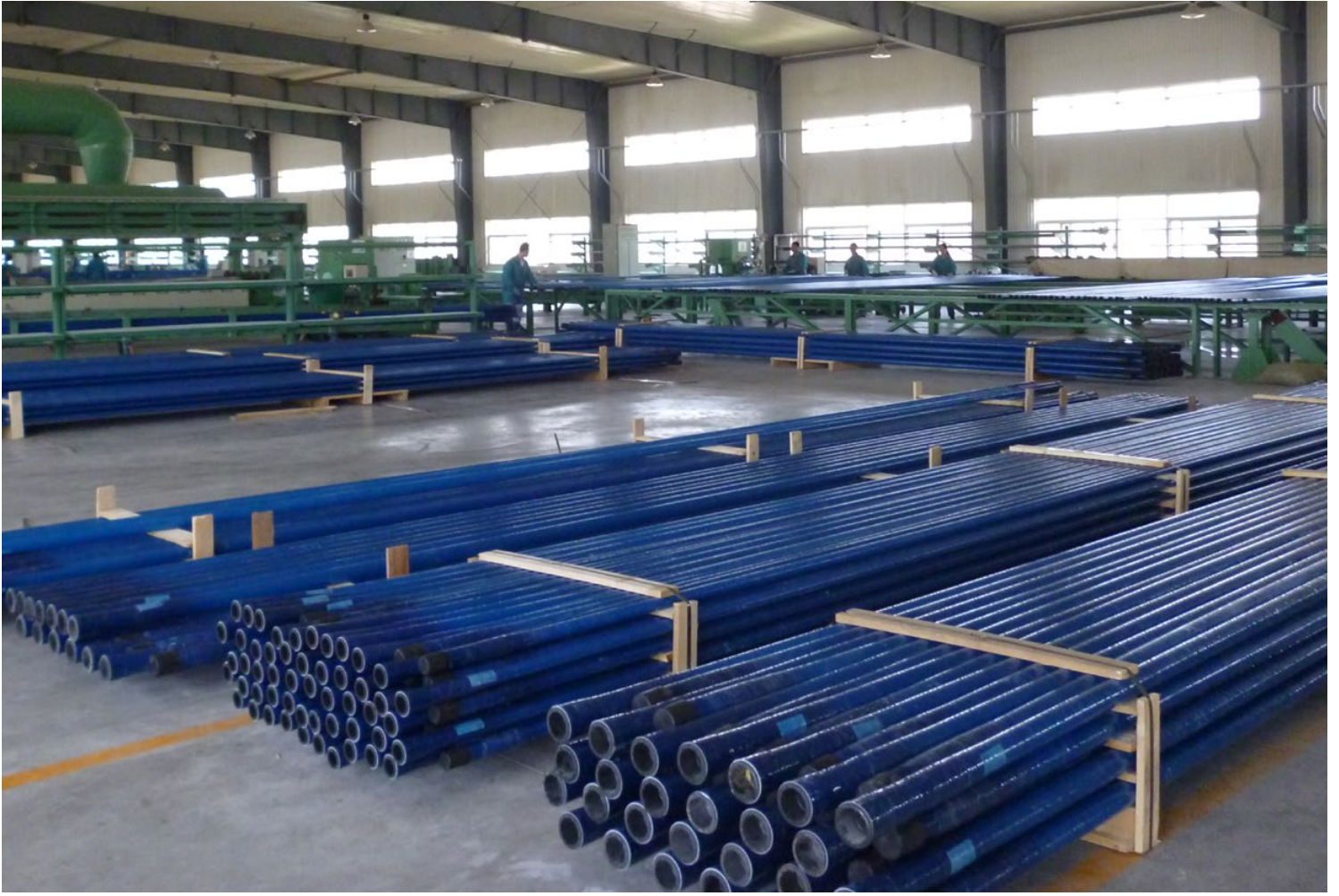
NOVAFAST®

PRODUCTS & CAPABILITY PROFILE



NOVAFAST®
A NOVAFAST HOLDINGS COMPANY

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INNOVATIVE PIPE SYSTEMS & COMPOSITE EQUIPMENT FOR CRITICAL PROCESSES

Established in 1999 in Adelaide, South Australia, Novafast was created under the Novafast Holdings group. Novafast caters to the need for quality composite products and materials meeting design specifications for major projects. The company flourished with national opportunities and quickly went global, supplying major clients around the world.

Over the years, Novafast has supplied quality composite products and materials to major contracts for oil and gas, desalination plants, waste management facilities, mine processing and environmental applications in Australia, Asia and the Middle East. Novafast's reputation has come from exceeding the client's expectations with a strong focus on research and development. A large variety of products have been developed to meet a wide range of clients needs, with the ability to custom design equipment for the most unique environments.

Novafast pipes are manufactured using high-strength continuous fibreglass filament winding processes. Utilising our knowledge-based manufacturing techniques with proprietary internal heating curing techniques and computer-controlled winding systems, we can ensure quality control throughout the production process.



SECTORS

Oil & Gas

- Flow Lines and Gathering Lines
- Fire-Water Systems
- Process Piping for Utility Water, Potable Water, and Cooling Water
- Offshore Platforms to IMO level 3 Fire Resistance
- Crude Oil Pipelines
- Hydrocarbon transfer lines
- Downhole casings and tubings

Mining & Industrial

- Weak Acid Pipelines
- Strong Acid Pipelines
- Solvent Extraction
- Caustic Pipelines
- Ammonia Processing facilities and Liquor pipelines
- Acid Stacks
- Large Diameter Cooling Water and Seawater Cooling Pipelines
- Borefield Pipelines
- Downhole De-watering bores and Mine Ventilation shafts
- In-Plant process pipelines.
- Various chemical process pipelines
- Slurry pipeline and abrasive services

Water & Wastewater

- Potable Water Pipelines
- Sewer Pipelines
- Manholes and Sewer Junction Pits
- Sodium Hypochlorite Pipelines
- Chemical dosing skids
- Desalination plant process piping
- Sewer ventilation ducts
- Odour control ductwork and stacks
- Down Hole casings and Tubing's for Water Monitoring
- Borefields and trunk lines

Defence & Marine

- Ballast Pipework
- Ballast Water Treatment
- Cooling water Pipework
- Potable Water Services
- Sewer Services
- On-ship Gas Scrubbing Systems; SO_x and NO_x Systems



PRODUCTS



NovaFlo 500

NovaFlo™ 500 is a Glass-fibre Reinforced Plastic (GRP) water and wastewater piping system, constructed from Novafast® 500 resin and high-quality glass fibre roving, using filament winding technology.

This piping system has been developed for use with water, wastewater, and light-duty corrosive service applications. Typical applications include irrigation, seawater handling, desalination, and sewerage treatment.



NovaFlo 1000 AR (Acid Resistant)

NovaFlo™ 1000 AR Pipe is a Glass-Fibre Reinforced Vinylester Epoxy (GRVE) Acid Resistant (AR) piping system developed by Novafast. Combining Novafast 1000 resin and high-quality glass-fibre roving using a specialised winding process, NovaFlo™ 1000 AR Pipe was developed for systems in harsh chemical environments.



NovaFlo 1000 FR (Fire Resistant)

NovaFlo™ 1000 FR Pipe is a Glass-fibre Reinforced Vinylester Epoxy (GRVE) Fire Resistant (FR) piping system developed by Novafast. Created by combining Novafast 1000 resin and high-quality glass-fibre roving using a specialised winding process, NovaFlo™ 1000 FR Pipe is specially developed for systems in harsh environments where the operating equipment's reliability and safety are paramount.



NovaFlo 2000M

NovaFlo™ 2000M is a Glass-Fibre Reinforced Epoxy (GRE) high-pressure piping system. NovaFlo™ 2000M is constructed from Novafast® 2000 resin and high-quality glass fibre roving using filament winding technology.

This series has been specially developed for use with gas, water and oil within medium to severe corrosive service applications.



NovaFlo 2500

NovaFlo 2500 GRE pipe is made by the high-strength continuous fibreglass filament winding process, with exclusively self-retained manufacturing techniques. Our self-developed internal heating curing technique and computer-controlled winding allow quality control during the whole course of the production. We are always diligent in pursuing new techniques to improve our products keeping continuous innovation a key focus, to becoming a market leader in this industry.



NovaBore

NovaBore™ is a Glass-Fibre Reinforced Epoxy (GRE) high-pressure bore casing system, constructed using Novafast® 2000 resin and high-quality glass fibre roving using filament winding technology.

NovaBore™ is developed for use with gas, water and oil in medium to severe corrosive services. Typical applications include CSG/LNG bore casing, high-pressure reinjection, tertiary recovery injection (polymer, CO₂, Na OH) and dewatering.



NovaWrap

NovaWrap™ is a multipurpose high-pressure composite repair system designed for protection, repair and remediation of pressure equipment and structures. NovaWrap™ kits contain all the materials required for the completion of a job. Surface primer, corrosion barrier, Novafast® resins, fibre-glass reinforcement and instructions are all provided in the kit. Job-specific instructions to suit the required strength and pressures are provided and Novafast can work with clients to ensure specification and parameters are met.



NovaBond

NovaBond™ is an epoxy-based GRE bonding adhesive. It has been developed to provide high strength, high pressure joins in GRE tapered bonded piping systems. NovaBond™ is the recommended adhesive for the NovaFlo 2000™ pipe series.

Conductive and non-conductive variants are available for conductive and non-conductive piping systems. NovaBond™ is easily mixed and applied and offers adequate working time and excellent curing properties.



NovaFast 1000 Resin

Novafast® 1000 Resin is an epoxy vinyl ester resin which has excellent mechanical properties and corrosion resistance. It is suitable for use in elevated temperature environments and protects against corrosion in a wide range of applications and chemical exposures.

Novafast® 1000 Resin is suitable for use as a protective or structural coating and as laminating resin for fibre reinforced structures. It may be applied using hand lay-up, spray-up or filament winding methods.



NovaFast 2000 Resin

Novafast® 2000 in Bisphenol A epoxy resin which has excellent impact, flexural and chemical resistance properties.

Novafast® 2000 resin is suitable for use as a protective or structural coating and as laminating resin for fibre reinforced structures. It may be applied using hand lay-up, spray-up or filament winding methods.



ISO14692 Composite Pipe Training

For end-users to get maximum operating benefits from their NovaFlo Piping Systems, the composite materials need to be installed correctly. It has been proven that most composite pipeline failures occur at the commissioning phase of a project. It is our mission to ensure this does not happen.

Novafast invites all pipe installers, supervisors, engineers and quality inspectors to enrol in our specialised courses.

Each course has both a practical and theory component. The participant is then required to demonstrate their understanding of NovaFlo piping systems by completing a closed book examination. Upon completion of the nominated course, the participant is issued with a certificate in accordance with:

- ISO 14692-4 Annexure C Pipe Joiner
- ISO 14692-4 Annexure C Spool Builder A
- ISO 14692-4 Annexure C Spool Builder B
- ISO 14692-4 Annexure C Pipe Fitter
- ISO 14692-4 Annexure C Supervisor
- ISO 14692-4 Annexure C Inspector
- RIICRC208D Lay Pipes

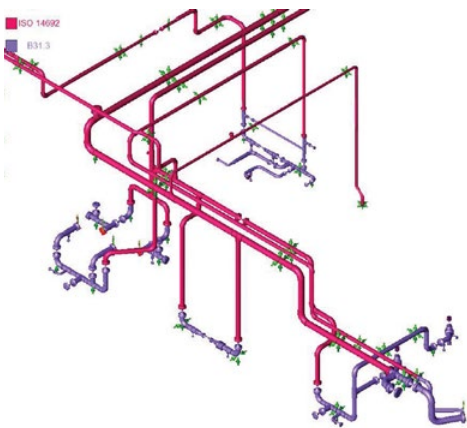
Our courses are the first of their kind, as we simulate live worksites with in-field experiences. We also offer the flexibility to conduct the course on-site for a nominated project.

Knowing that the construction industry is the most challenging and potentially dangerous of industries, we believe in educating the workforce before they undertake the job.





SERVICES



Engineering

Novafast offers clients a complete service when it comes to composite piping systems. Our in-house engineers use the latest in design software from; Caesar II, Strand 7, AutoCAD Inventor and various other industry-specific programs

Our long history and operating experience allow us to offer customized solutions to clients for their composite piping needs. Our engineers are renowned and extremely experienced in composite piping design.



Project Management

Novafast can handle your project requirements to ensure the most efficient approach is considered for the execution of your project. Novafast will work to ensure the projects are completed on and time on budget whilst ensuring Safety and Quality aspects are not compromised.

Novafast will implement their ISO9001:2015 Quality Management systems to ensure each project is consistently delivered to the highest of standards.



Site Services

Novafast offer site services to clients who want the peace of mind knowing that the whole process has been managed by the OEM. Using our refined Integrity Testing Program, Novafast can complete full condition assessments of existing composite equipment. Upon completion, our experienced team can provide clients with an estimated end of life, as well as recommendations on preventative maintenance to reduce the risk of site failures and costly downtimes.



TECHNOLOGY

Manufacturing

Novafast is a leading manufacturer of composite piping systems and composite process equipment for critical and harsh infrastructure where reliability and certainty are foremost. Our factories use filament winding technologies during the manufacturing process to create our extensive range of different products.

Novafast has the capacity to manufacture in Australia, Malaysia, Indonesia, and China. All Novafast facilities are ISO 9001 compliant and all products that are manufactured are put through a quality endorsement program to ensure standard compliance and client peace of mind.

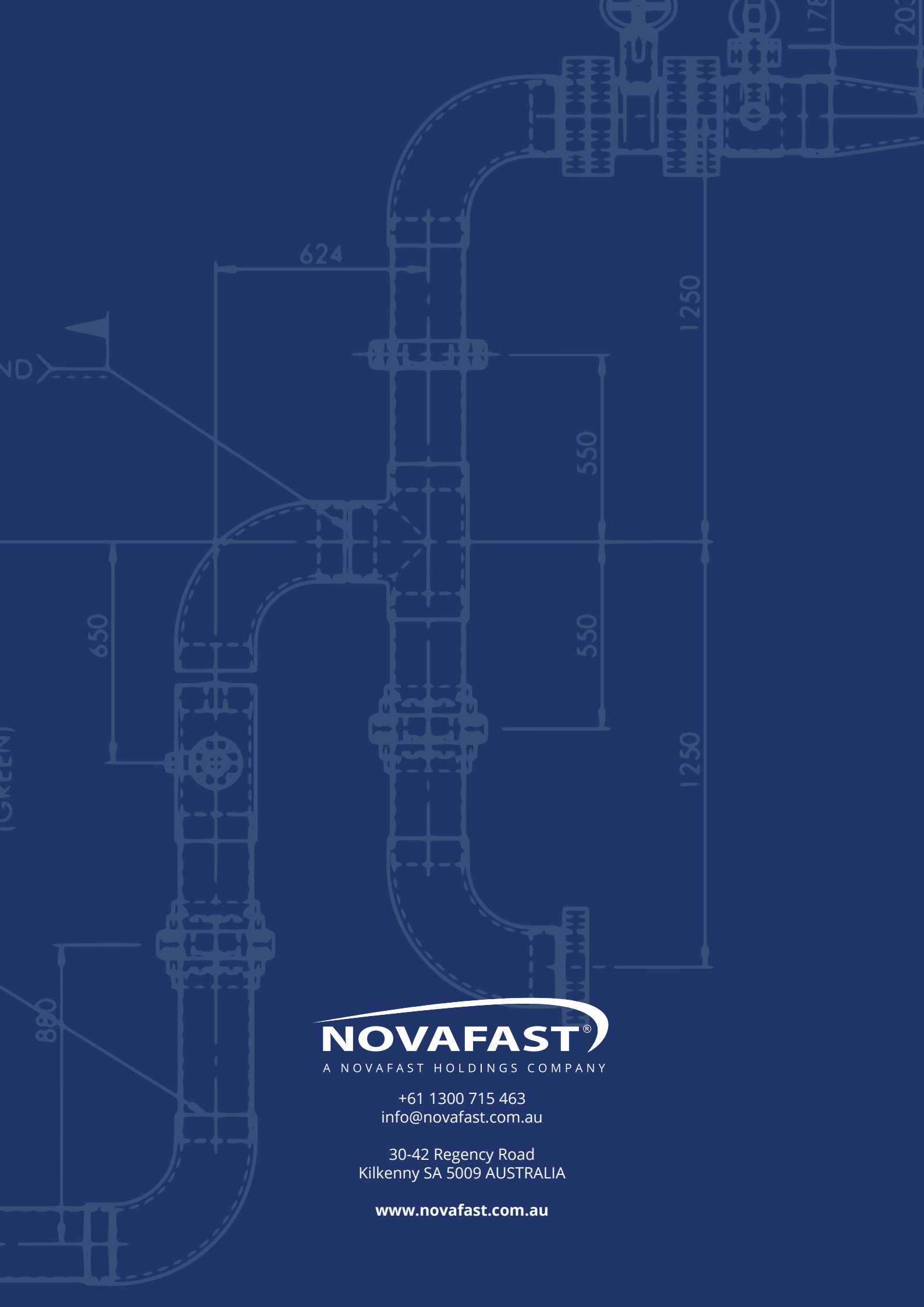
Novafast can manufacture pipes from 25mm to 4000mm in diameter and are able to meet nearly all of the major industry standards including; API 15HR, API 15LR, ISO 14692:2017, Shell DEP 31.40.10.19, BS7159, ASME RTP-1, EN13121, ASTM D5627, ASTM D3517, and AS3571.

Research & Development

Research and Development are what sets Novafast apart from the rest. Novafast is the only Australian GRE pipe manufacturer and the only company in Australia able to carry out testing on composite pipes to the newly appointed ISO14692 :2017 standard.

Novafast invests significantly on an annual basis to further understand and develop their knowledge on composite piping systems. Our extensive laboratory facilities enable us to carry out destructive, long term fatigue, fire and many other forms of test.

Over the years Novafast with Dennis Southam & Associates have collected data from operating pipelines along with data from newly built products to understand how composite pipelines behave and the reliability associated with it. From the collation of this data, we are then able to put this back through our laboratory to develop, enhance and create new products keeping Novafast at the forefront of the industry.



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