

WOOD GROUP INTEGRITY MANAGEMENT (WGIM) brings together a group of engineering expertise across the globe, with distinct market leadership in the fields of Materials (Metallic and Non-Metallic), Corrosion, Cathodic Protection, Coatings, Metallurgy, Welding, Fabrication, Asset Management, Training, HSE and Risk/Integrity related engineering across a broad manufacturing and industrial base. As the major process employed in the world today for joining metals, welding exerts considerable influence upon society and control of its application is a critical aspect of the manufacturing and construction industry.



Welding Engineering Capabilities

- Welding metallurgical and engineering advice for the new construction, maintenance, repair and reclamation of materials.
- Evaluation of welding requirements and selection of welding consumables for optimum in-service performance.
- Failure investigation of both ferrous and non-ferrous materials and welds.
- Evaluation of wear and corrosion problems and advice on weld overlaying solutions.
- Advice and guidance relating to in-service maintenance and repair welding.
- Production of fabrication and welding specifications for all aspects of construction.
- Review of fabrication control procedures.
- Welding procedure specification and qualification development and/or review.
- Guidance and advice relating to brazing technology.

- Technical audits of welding control systems for manufacturing and fabrication.
- Review of non-destructive examination feasibility, methodologies, application and control systems.
- Monitoring of materials production/manufacturing.

Materials Capabilities

WGIM's welding experience involves a wide selection of materials employed in manufacturing and construction, including:

- Carbon and carbon manganese steels.
- Normalised, normalised and tempered and quench and tempered alloy steels employed in structures, pressure vessels and pipelines.
- Cr-Mo and Cr-Mo-V steels employed in high temperature creep environments.
- Copper and copper alloys used in the electrical, marine and offshore industries.
- Stainless steels including ferritic, austenitic, martensitic, super austenitic, duplex and super duplex.
- Nickel base alloys including hastalloys, inconels, incolloys and monels for aggressive and high temperature corrosion applications.
- Malleable and nodular cast irons.
- Aluminium and aluminium alloys.



WGIM provides welding engineering expertise either independently or as a global solution (depending upon client requirements) in combination with materials selection, corrosion philosophy and life cycle requirements.