

## ABOUT US

From its inception, Darchem Engineering has maintained test facilities to confirm the materials and systems used in its design and manufacture of parts, comply with required customer specifications. Following an amalgamation of several inter-company laboratories in the early 1990's, Darchem Flare, a UK based accredited Fire test facility, was created to perform large and small scale testing for customers.

Working to British and International Test Standards as well as developed engine supplier test requirements, Darchem Flare conducts a wide variety of fire tests for multiple industry applications. Whilst there is a particular focus on aerospace testing of parts for both the civil and military aircraft markets (Seals, Thermal Blankets etc.), this diversity also extends to testing for the Civil/Structural, Automotive, Marine and Oil & Gas industries.

Using the company expertise gained in the design and manufacture of components and systems for use in high temperature environments, Darchem Flare is able to offer that experience as a single entity. Furthermore, Darchem Engineering as a whole can provide a complete service, from component design and manufacture to test and qualification.

## TESTING & APPROVALS

Our test capabilities include, but are not limited to:

- AC20-135 Fire Testing
- ISO 2685 Fire Testing
- BS 476-20 & BS 476-21 Fire Tests on Building Materials and Structures (E.g. Downlights)
- Specialist Aerospace Testing for Bleed Air Leakage and Altitude Cycling
- Ventilation Systems capable of achieving +/- pressures

Darchem Flare is accredited to the internationally recognised ISO 17025:2017 standard for Fire testing and holds specific test approvals with OEM customers:

- ✓ ISO 2685 Standard UKAS Accredited Fire Testing
- ✓ AC20-135 Standard UKAS Accredited Fire Testing
- ✓ Rolls Royce Approval RRES 90023
- ✓ Airbus SP0705382
- ✓ ISO9001
- ✓ AS9100

## ONSITE EQUIPMENT

- FAA Approved Kerosene Fuel Burner
- Nex-Gen Kerosene Fuel Burner
- European Standard Propane Gas Burner
- Multi Purpose High Temperature (1000°C) Deck Furnace
- Multi Purpose High Temperature (1000°C) Box Furnace
- High and Low Air Flow Ventilation Systems

## DESIGN & MANUFACTURE SUPPORT

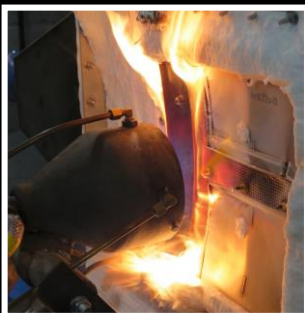
Our customer focused technical engineering team have the knowledge and experience to provide in-house design support of bespoke test rigs and equipment. Using the latest CAD software and fabrication techniques, Darchem Flare can design and manufacture rapid turnaround test rigs for all your testing requirements.

## CONTACT US

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Propane Gas Burner



Ventilation System



High Temperature Deck Furnace



Kerosene Fuel Burner



Bleed Air Leakage Test



Bespoke Test Rig 3D CAD

