# Stress Relieving



# **Project Enquiries**

Craig Malt +61 (0) 3 5274 3180 sales@thorntoneng.com.au www.thorntoneng.com.au **CAPABILITY PROFILE** 

At Thornton Engineering we offer one of the largest Stress Relieving ovens in the southern hemisphere. Extreme heat in metals causes unwanted changes to the microstructure of the material. Through Stress Relieving we can improve hardness, ductility and reduce the risk of brittle fracture to the material, by re-heating the material to temperatures dictated by specific codes.

#### EQUIPMENT Length: 25m ✓ Width: 7m ✓ Height: 7m Evaporators ✓ Gas supply: 7kPa to 70kPa Reactors Combustion chamber volume: 936m3 Autoclaves ✓ Operating temperature: 300-800°C

- ✓ Maximum temperature: 1000°C
- ✓ 21 burners at 30° incline
- ✓ 5 side wall flues and 4 chamfered edges spread evenly to improve circulations and prevent impingement

#### **KEY APPLICATIONS**

- Quenching and tempering
- Vessels, columns and towers

- ✓ FFC Units
- Feedwater heaters and condensers
- Blow down receivers
- Waste heat boilers
- Tail gas heaters
- Hyperbaric chambers
- ✓ Scrubbers
- Frames





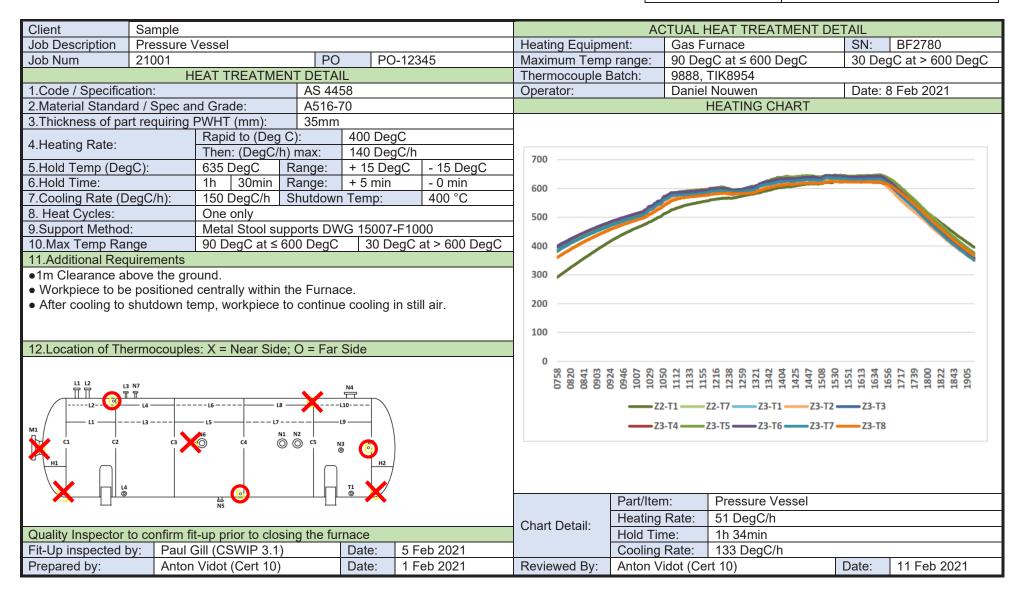


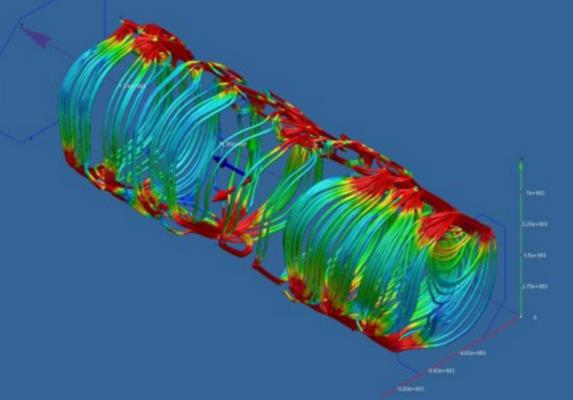


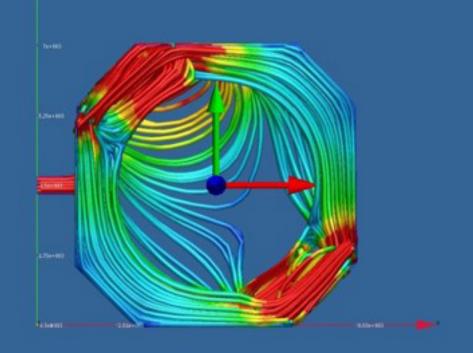


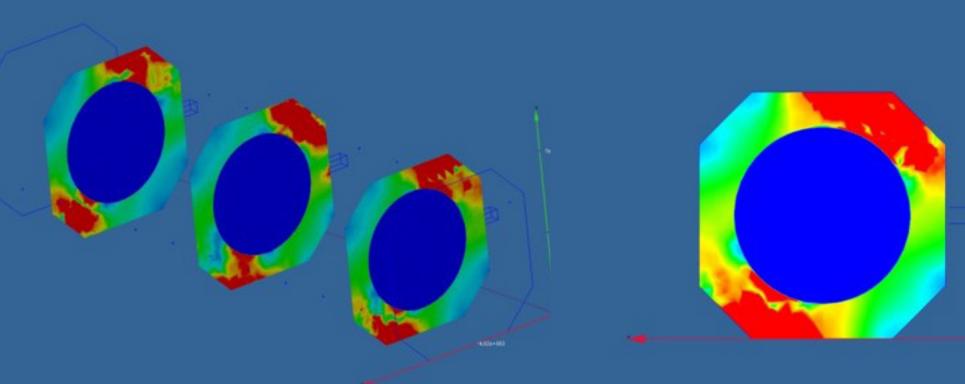
## **HEAT TREATMENT INSTRUCTION / REPORT**

HT Identification HT 210201-21001 rev0















## 01. Precision Design

Our team can prepare designs to your exact specifications and international design standards.



#### 02. Extensive Capability

We leverage our industry leading machinery to produce an extensive range of steel products.



#### 03. Proven Performance

We have a reputation for consistently delivering projects at scale, on time and on budget.

#### 04. World Class Quality

We operate an advanced quality management system providing you with the quality you demand.





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