



## QT NDT WTC 0603-2019

### Quantum NDT weld testing



BS EN ISO 10042:2005 "Welding – Arc welded joints in aluminium and its alloys – Quality levels for imperfections". Gives acceptance criteria for surface breaking and buried defects at three quality levels (B, C & D, B being the most onerous). Normally the details of the inspection scope and the quality level to be applied are specified in the construction standard and relate to the implication that the defects have for the structural integrity of the weld.

Contact a member of our team for more comprehensive information on this product

## Product Information

### Quantum Aluminium Site Welding system.

Was introduced in the early 1980's and allows flexibility in the design and construction of roofs whilst using aluminium roofing systems.

#### Quality

Quality and controls in accordance with ISO 9001:2015. All welding operatives are fully coded and familiar with the construction, operation and dynamic forces requiring understanding

#### Components

All welded joints carried out by fully trained coded, competent welders using the T.I.G. weld process, all details available on request

#### Durability

Strong, lightweight and permanent solution to all roofing details

#### NDT weld testing

Non destructive weld testing allows testing without destruction. Is carried out using 3 various spray applications and together with visual inspection detects surface defects.

The below detailed list outlines the acceptable levels of defect.

BS EN ISO 10042:2005

"Welding – Arc welded joints  
Aluminium and its alloys –  
Quality levels for imperfections".

Table 1 Limits on imperfections  
Section 1 Surface imperfections.

- 1.1 Cracks Level D
- 1.2 Crater Crack level C
- 1.3 Uniformly distributed porosity Level D
- 1.4 Clustered (localised Porosity Level D
- 1.5 Linear Porosity Level C
- 1.6 Surface Pore Level D
- 1.7 End Crater Pipe Level C
- 1.10 Continuous undercut Level D
- 1.15 Overlap Level D