



WeldQ Examiner's Test Options

This table of options must be used in conjunction with AS/NZS ISO 9606-1 or AS/NZS 2980 (as appropriate).

Available combinations of weld test plate assessment methods for all welder qualification tests to AS/NZS ISO 9606-1 and AS/NZS 2980 are:

Plate butt welds				
Visual	plus:			
Radiograph plus	Additional bends or fracture tests for all GMAW ^{131, 135} , FCAW ¹³⁸ (metal core) and oxyacetylene ³¹¹ welding only. One of these tests to come from stop start region	Bend tests or→	Fracture tests or → (i.e. Nick-break test)	Ultrasonic (≥8mm ferritic steel only)
Pipe butt welds				
Visual	plus:			
Radiograph <i>plu</i> s	Additional bends or fracture tests for all GMAW ^{131, 135} , FCAW ¹³⁸ (metal core) and oxyacetylene ³¹¹ welding only. One of these tests to come from stop start region	Bend tests or→ For OD ≤ 25mm, notched tensile optional in lieu of bends	Fracture tests or → For OD ≤ 25mm, notched tensile optional in lieu of nick-break	Ultrasonic (≥8mm ferritic steel only)
Fillet weld				
Visual	plus:		1	
Fracture test or→ (i.e. Fillet- break test)		2 macros One macro to come from stop start region		
Branch pipe joint				
Visual plus:				
Fracture tes (i.e. Fillet- brea		2 macros or→ One macro to come from stop start region	Radiography	

Notes:

- 1. Bend test: ISO test method is ISO 5173; Australian test method is AS 2205.3.1. The Australian test methods for bend testing are similar to the specified ISO methods and provide similar technical outcomes.
- 2. Fracture test: Test method is AS/NZS 2205.4.1 (ISO 9017).
- 3. Macro test. Test method is AS/NZS 2205.5.1 (ISO 17639).
- 4. Radiographic test. ISO test method is ISO 17636, AS 2177 is the Australian test method. The methods are not identical and cannot be substituted.
- 5. *Ultrasonic test*: ISO method is ISO 17640. AS 2207 is the Australian test method. The methods are not identical and cannot be substituted.
- 6. Visual test. Test method is AS/NZS ISO 17637. Do not use AS 3978.
- 7. For radiographic and ultrasonic examinations, the specified ISO methods must be utilised if the weld procedure being followed by the welder is qualified to ISO standards. If the procedure was qualified to standards such as AS/NZS 1554.1, AS/NZS 3992 or other Australian standards then the Australian RT or UT test method must be used.