

Results of mechanical tests from plates welded with and representing  
Messrs. Babcock & Wilcox Ltd., Fusion Welded drums manufactured under  
Contract No. 1362.

Mark	Description	Tensile tons/sq. inch	Elongation % on 2"	Remarks
G.A.	All weld metal	30.1	31.0	Reduction of area 60.4%
	Cross weld	29.7	37.0	
	Bend 180° satisfactory.			
	Izod - weld edge 75, weld centre 62 ft.lbs.			
G.A.	All weld metal	28.7	32.0	Reduction of area 66.0%
	Cross weld	30.8	40.0 on 1½"	
	Bend 180° satisfactory.			
	Izod - weld edge 70, weld centre 52 ft.lbs.			
G.A.	All weld metal	29.7	27.0	Reduction of area 49.5%
	Cross weld	31.0	45.0 on 1½"	
	Bend 180° satisfactory.			
	Izod - weld edge 48, weld centre 60 ft.lbs.			

The specimen has been etched across the full section of the  
weld and shows that sufficient reinforcing weld metal has been  
deposited to refine the grain size of the weld metal in the joint.

*Blumenthal*



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Foundation

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