



## Welding of Railway Vehicles and Components according to EN 15085-2

The Company: Hydram Engineering Limited

Welding Manufacturing Sites:

Address: Avenue 1, Chilton Industrial Estate, Chilton, Co. Durham, DL17 0SG

Is certified to perform welding under certification level CL 1 according to EN 15085-2

Field of application: Fabrication and welding of carbon-manganese steels, stainless steels and aluminium alloys in conjunction with new build of railway vehicles and rail components to existing drawings and customer specifications without design. Small welding manufacturer with a single welding shop.

Range of Certification:

Welding Process according to EN ISO 4063	Material Group according to CEN ISO/TR 15608	Dimensions
135: MAG solid wire	1.1 Steels $R_{eH} \leq 275N/mm^2$	1.4mm – 6mm
	1.2 Steels $R_{eH} > 275N/mm^2 \leq 360N/mm^2$	3mm – 40mm
141: TIG solid wire	1.2 Steels $R_{eH} > 275N/mm^2 \leq 360N/mm^2$	1.4mm – 9.6mm
	8.1 Austenitic stainless steel with $Cr \leq 19\%$	1.4mm – 4mm
	23.1 Heat treatable alloys: Al-Mg-Si alloys	1.5mm – 6mm
	22.1 to 22.1 Aluminium-manganese alloys	
	22.2 to 22.2 <sup>a</sup> Aluminium-magnesium alloys with $Mg \leq 1.5\%$	
	22.3 to 22.3 <sup>a</sup> Aluminium-magnesium alloys with $Mg > 1.5\% \leq 3.5\%$	
	22.4 to 22.4 <sup>a</sup> Aluminium-magnesium alloys with $Mg > 3.5\%$	
23.1 Heat treatable alloys: Al-Mg-Si alloys welded to Non-heat-treatable alloy combinations of 22.1, 22.2 <sup>a</sup> , 22.3 <sup>a</sup> , 22.4 <sup>a</sup>		

<sup>a</sup>Provided Al-Mg filler material is used

Responsible Welding Coordinator:

Mr Jeff Garner MSc CEng FWeldI, Certified European/International Welding Engineer (d.o.b 17/11/1959) Level A

Deputy Responsible Welding Coordinator:

Mr Russell Cant, CSWIP 3.1 Welding Inspector, PCN Level 2 Magnetic Particle Inspection (d.o.b 07/01/1980) Level B

**Certificate Number: CWRVC/029/GB**

**Valid Until: 22 September 2023**  
(subject to satisfactory periodic surveillance)

**Issued On: 14 October 2021**

Head of Manufacturer Certification Body, TWI Certification Ltd

Issued by: TWI Certification Ltd, Granta Park, Great Abington, Cambridge, CB21 6AL, UK