



The SkV welding method has been used successfully all over the world for many years. Because it can be completed in a short time, the aluminothermic welding process is used as the standard method for joining steel rails for heavy haul as well as high speed transit railroads.

We are introducing the new THERMIT[®] 2.0 portion, with superior properties, designed for Pearlitic High Strength steel rails of > 370 BHN.

New THERMIT® portion with superior properties

RELIABLE AND ROBUST

Due to our extensive experience with the SkV welding procedure you now have a choice of two different welding portions, depending on the BHN of the rail to be THERMIT® welded: our Intermediate Hardness (IH) THERMIT® portion or our THERMIT® 2.0 portion; both can be used with our 1 inch gap, degradable crucible SkV Thermit welding process. The short execution time ensures the highest track availability while maintaining the highest reliability.

RAIL JOINING

RAIL SERVICES

MEASUREMENT

TOOLS & MACHINES

EQUIPMENT



OVERVIEW OF 1 INCH GAP SKV WELD

Feature	Function	Benefit Improved mechanical strength and ductility with excellent fatigue properties and surface wear resistance		
Designed for AREMA standard, intermediate strength and high strength steel rails	Reliable process suitable for all steel grades			
Available for our 1 inch welding gap process with our degradable crucible system	Hardness adjustable to rail grade	Enhanced slow bend bending properties		
Working range: Pearlitic High Strength rail steels 370 BHN minimun	Extremely stable weld metal chemistry	Reduced vulnerability for defects (Hot cracks, web fractures)		

TYPE OF TEST: RAIL SLOW BEND TEST
CUSTOMER: Orgo-Thermit
PROJECT NO.: RDC-3151

RAIL NO. OR I.D.	RAIL/WELD TYPE	RAIL WEIGHT	OFFSET	SECTION MODULUS	MAXIMUM LOAD	DEFLECT	MODULUS OF RUPTURE
#16807	136 New RE HH Thermit	136	0	28.30	449418	0.619	142924
#16810	136 New RE HH Thermit	136	0	28.30	476263	0.767	151462
#16817	136 New RE HH Thermit	136	0	28.30	465129	0.699	147921

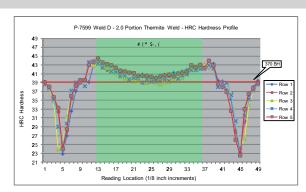


Figure 2 Hardness profiles of 2.0 Portion Weld D





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