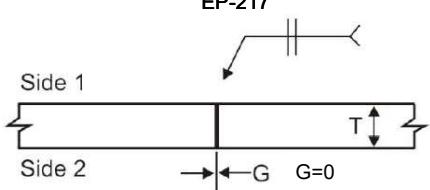
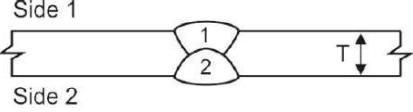
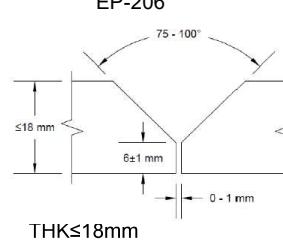
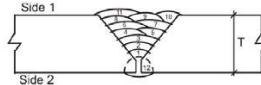
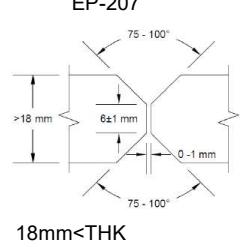
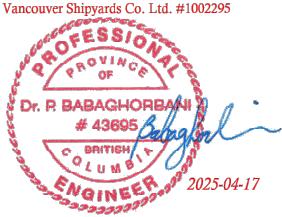


		POLAR POCKET WPDS						Pocket-POLAR-07		0	April 17, 2025	
		WPDS No.						Rev.	Date			
		Seaspan Vancouver Shipyards Co. Ltd.						Applicable Standard(s)		Lloyds Register - Rules for the Manufacture, Testing and Certification of Materials 2022		
Process/Mode		Wire/Flux Classification						Brand Name		Manufacturer		
1	SAW		AWS A5.23 : F7A4-EA1-A2						Lincolnweld L-70 / 888		Lincoln Electric	
Material Designation		Base material 1			Base material 2			Min. Preheat / Interpass Temp.	As per VSY Preheat and Interpass Temperature Requirements for Welding			
		EH 36 and all lower toughness grades			EH 36 and all lower toughness grades							
Delivery Condition(s)		All except QT			All except QT			Max. Interpass Temp.	180°C			
Thickness or Dia		6mm - 100 mm			6mm - 100 mm							
Nominal Pipe Size		150mm and above			150mm and above			PWHT	N/A			
Welding Position		1G						Joint Design	Butt Square, Single/Double Bevel/Vee			
 								 		 		
TYPICAL JOINT PREPARATION FOR THK≤13mm								TYPICAL JOINT PREPARATION FOR THK>13mm				
COMPLETE JOINT PENETRATION					JOINT TYPE	Back Purge		N/A		Contact Tip to Work Distance	20-55 mm	
<input checked="" type="checkbox"/> Back-gouged to sound metal <input type="checkbox"/> Welded onto steel backing <input type="checkbox"/> Welded from one side without backing <input checked="" type="checkbox"/> Welded both sides w or w/o back-gouging <input type="checkbox"/> Welded onto other than steel backing					<input checked="" type="checkbox"/> BUTT <input type="checkbox"/> CORNER <input type="checkbox"/> LAP <input type="checkbox"/> TEE <input type="checkbox"/> EDGE	Backing type		N/A		Contact Tip to Work Distance  Shielding Gas  Gas Flow	20-55 mm	
						Welding Technique		Stringer			N/A	
						Max. Bead Width		N/A			N/A	
						Tungsten Electrode		N/A			<input type="checkbox"/> Cfph <input type="checkbox"/> Lpm	
						Cleaning		Grinding and Wire Wheel				
Edge Prep	BM Thickness (mm)	Layers / Passes	Position	Electrode Size (mm)	Welding Process	Power Mode	Consumable	Amperage	Voltage	WFS (IPM)	Travel Speed (IPM)	Heat Input kJ/mm
217	6≤T≤14.3	Side 1	1G	3.2 & 4.0	SAW	CC/DC+	F7A4-EA1-A2	398 - 688	24 - 43	45-79	18-30	Note 4
217	6≤T≤14.3	Side 2	1G	3.2 & 4.0	SAW	CC/DC+	F7A4-EA1-A2	417 - 850	24 - 43	47-91	18-30	
206	10<T≤100	Side 1 Root	1G	3.2 & 4.0	SAW	CC/DC+	F7A4-EA1-A2	360-838	22-41	13-55	17-34	Note 5
206	10<T≤100	Side 2 Root	1G	3.2 & 4.0	SAW	CC/DC+	F7A4-EA1-A2	397-900	25-41	13-55	16-29	
206	10<T≤100	Side 1&2 Fill/Cap	1G	3.2 & 4.0	SAW	CC/DC+	F7A4-EA1-A2	338-825	23-40	13-55	15-36	
Note 1: Joint must be free from any source of contamination Note 2: Heat Input (kJ/mm) = [V x A x 60] / [Travel Speed (mm/min) x 1000] Note 3: Grind joint and adjacent surfaces to bright metal prior to welding to remove all traces of paint, primer, scale, rust, moisture and any other contaminants. Wire brush, grinding to be used for interpass cleaning.												
Note 4		Base Metal THK (mm)		6 ≤ T < 9.7			9.7 ≤ T ≤ 9.9			10 < T ≤ 14.3		
		Root Heat Input (kJ/mm)		Side1: 1.3 - 2.1   Side2: 1.3 - 2.2			Side1: 1.3 - 2.2   Side2: 1.3 - 2.9			Side1: 1.3 - 2.2   Side2: 1.7 - 2.9		
Note 5		Base Metal THK (mm)		10 ≤ T < 25			25 ≤ T ≤ 40			40 < T ≤ 100		
		Root Heat Input (kJ/mm)		Side1: 0.9 - 1.5   Side2: 1.4 - 2.2			Side1: 0.9 - 3.4   Side2: 1.4 - 3.5			Side1: 2.0 - 3.4   Side2: 2.0 - 3.5		
		Fill/Cap Heat Input (kJ/mm)		1.0 - 2.1			1.0 - 3.6			1.3 - 3.6		
										Engineer Stamp		
Reference WPS No.	SA-CS-G-01 (Rev. 1) SA-CS-G-02 (Rev. 1)									 Vancouver Shipyards Co. Ltd. #100229		