

 Tecnimont S.p.A.	 REPSOL POLIMEROS SA	4274_CONST 4274-ALBA PROJECT-PP AND PEL PLANTS	
MOD-ITP-XL_220 RELEASE OF SPOOLS FROM WORKSHOP Rev.1		Report n° IP-WSR-P-310-000026_RFI671 MOD-ITP-XL_220 RFI Nr.: 671 Date :	
Unit -			
Plant Area -			
Isometric Number			
Inspection Package Number IP-WSR-P-310-000026_RFI671 - IP Spool Release From Workshop			

Sheet 01/01

The Present Inspection Package contains the following Elements:

2121-VZ40P01-3-SP01;2121-VG40Z03-2-SP01-ZZ;2121-VG40P14-1-SP03;2121-VG40P14-1-SP02;2121-VG40P14-1-SP01;2121-VA49A07-1-SP01;2121-VA40Y02-1-SP02;2121-VA40Y02-1-SP01;2121-VA40U10-2-SP02;2121-VA40U10-1-SP01;2121-VA40U02-2-SP03;2121-VA40U02-2-SP02;2121-VA40U02-1-SP01;2121-MOD40Z24-1-SP01;2121-LPN91S10-1-SP04;2121-LPN91S10-1-SP03;2121-LPN91S10-1-SP02;2121-LPN91S10-1-SP01;2121-CWS91J51-2-SP03;2121-CWS91J51-2-SP02;2121-CWR40B12-2-SP04;2121-CWR40B12-2-SP03;2121-CWR40B12-2-SP02;2121-CWR40B12-1-SP01;2121-CWR40B06-2-SP01;2121-CWR40B06-1-SP03;2121-CWR40B06-1-SP02-ZZ;2121-CWR40B04-1-SP04;2121-CWR40B04-1-SP03;2121-CWR40B04-1-SP02;2121-CWR40B04-1-SP01;2121-CWR40B01-1-SP02;2121-CWR40B01-1-SP01

NOTES (\*) : 4274-XH-PQ-00000001

1) Painting cycle to be indicated.

2) Refer to: 4274-LZ-PC-00000214 (COMPANY 4001008GEN-PC-214) "Management of Site Metallic Welding Activities" and 4274-LZ-PC-00000215 (COMPANY 4001008GEN-PC-215) "Procedure for Traceability of Piping Material"

3) Refer to: 4274-XH-SG-00000003 (COMPANY 45-L-45-000-2-00-80005) "Specification for Piping Fabrication & Erection Amendment to EC-L-51.01 and EC-L-51.02" and 4274-XH-PQ-00000001 (COMPANY 45-L-45-000-2-00-80081) "Inspection and Test Plan for Steel Piping Works"

  
 L.Gomes  
 NWI  
 18/12/2023

LEGEND OF CHECK RESULT	<input checked="" type="checkbox"/> Checked & NOT Accepted	<input checked="" type="checkbox"/> Checked & Accepted	N.A. Not Applicable	Y / N	Punch List Produced
	Date [DD-MMM-YYYY]	Name	Signature		
SUBCONTRACTOR	18/12/2023	Patricia Texeira	Patricia Texeira		
CONTRACTOR	18/12/2023	João Guilherme Pinto	João Guilherme Pinto PIPING SUBC TEN		
COMPANY (Free)					

# ISO Summary List

# 22635 / 1453

Page 1

Client **TECNIMONT/REPSOL**

Job # **22635**

% RT/UT

Local **Portugal**

Project **4274 ALBA-I007 Piping Fabrication**

% PT/MT

ISO # **2121-CWR40B12-2** ✓

Revision **00**

Priority **6**

Piping Size/Class **4-B-1**

PED Category **I**

**Assessment Inspection/Results**


Spool	Weld#	Joint	Product Description	Seq. N.	Heat #	M.Certificate	FM-Dos	WPS	WeldDate/Stamp	VT	NDT-PT/MT	NDT-RT/UT	NDT-PMI/HT	NDT-PN	NDT-FT	Extension 1	Extension 2
01	02	S12	BW 4" 90 LR ELBOW ASME B16.9 A234-WPB BE S ✓ 4" PIPE - A106-B BE SMLS ✓	341 445	17357 ✓ 23101886 ✓	CE23001997_3.1_01 23602066	16.Varela PVX2911394	MW.20_BW	08/11/2023 S71	VT-I-066							
03	02	S11	BW 4" PIPE - A106-B BE SMLS ✓ 4" 90 LR ELBOW ASME B16.9 A234-WPB BE S ✓	445 341	23101886 ✓ 17357 ✓	23602066 CE23001997_3.1_01	16.Varela PVX2911394	MW.20_BW	08/11/2023 S71	VT-I-066							
04	04	S21	BW 4x3" ECCENTRIC REDUCER ASME B16.9 A234- ✓ 3x3" WN FLANGE ASME B16.5 150# A105N RF ✓	205 36	11907 ✓ 043A22 ✓	CE23007070_3.1_01 224878	16.Varela PVX2911394	MW.20_BW	08/11/2023 S71	VT-I-066							
05	02	S13	BW 4" PIPE - A106-B BE SMLS ✓ 4" 90 LR ELBOW ASME B16.9 A234-WPB BE S ✓	445 341	23101886 ✓ 17357 ✓	23602066 CE23001997_3.1_01	16.Varela PVX2911394	MW.20_BW	08/11/2023 S71	VT-I-066							
07	03	S15	OL 4" PIPE - A106-B BE SMLS ✓ 4x.75" REDUCING SOCKOLET MSS SP-97 3000	445 425	23101886 ✓ 244301 ✓	23602066 CE20221596	16.Varela PVX2911394	MW.20_SBR	08/11/2023 S71	VT-I-066	MT: MT-I-034-A						
09	03	S17	BW 4" PIPE - A106-B BE SMLS ✓ 4x4" WN FLANGE ASME B16.5 150# A105N RF ✓	445 36	23101886 ✓ 10EE23 ✓	23602066 224878	16.Varela PVX2911394	MW.20_BW	08/11/2023 S71	VT-I-066							
10	04	S18	BW 4x4" WN FLANGE ASME B16.5 150# A105N RF ✓ 4" 90 LR ELBOW ASME B16.9 A234-WPB BE S ✓	36 341	10EE23 ✓ 17357 ✓	224878 CE23001997_3.1_01	16.Varela PVX2911394	MW.20_BW	08/11/2023 S71	VT-I-066							
11	04	S19	BW 4" 90 LR ELBOW ASME B16.9 A234-WPB BE S ✓ 4" PIPE - A106-B BE SMLS ✓	341 445	17357 ✓ 23101886 ✓	CE23001997_3.1_01 23602066	16.Varela PVX2911394	MW.20_BW	08/11/2023 S71	VT-I-066							
12	04	S20	BW 4" PIPE - A106-B BE SMLS ✓ 4x3" ECCENTRIC REDUCER ASME B16.9 A234- ✓	445 205	23101886 ✓ 11907 ✓	23602066 CE23007070_3.1_01	16.Varela PVX2911394	MW.20_BW	08/11/2023 S71	VT-I-066							
13	02	S10	BW 4" 90 LR ELBOW ASME B16.9 A234-WPB BE S ✓ 4" PIPE - A106-B BE SMLS ✓	341 445	17357 ✓ 23101886 ✓	CE23001997_3.1_01 23602066	16.Varela PVX2911394	MW.20_BW	08/11/2023 S71	VT-I-066							

## Notes

BW-Butt Weld; FW-Fillet Weld; LW-Lap Weld; SW-Socket Weld; TBW-Tee Butt Weld  
PT-Penetrant Test; MT-Magnetic Test; RT-Radiographic Test  
UT-Ultrasonic Test; PMI-Positive Material Identification  
HT-Hardness Test; PN-Pneumatic Test; FT-Ferrites Test

## Remarks

## APPROVED QC

Name: *Patricia Texeira*  
Date: *18/12/2023*  
Sign: *Patricia Texeira* 

## APPROVED by Client

Name:   
Date: *L. Gomes*   
Sign: *L. Gomes* 

## APPROVED by 3rd party or AI

Name:  
Date:  
Sign:







					LINE DATA								
					FLUID CODE: CWR			LINE NO. 4"-CWR-40B12-B-1					
					PIPING MATERIAL CLASS		INSULATION	WELD CLASS	HEAT TREATMENT	PAINTING CODE	P&ID No.		
00	29-08-2023	ISSUED FOR CONSTRUCTION			TG	MV	TM	B-1	N / O	E	N	1	19-A-19-000-1-01-00001 sheet 29
REV	DATE	REVISION DESCRIPTION			DRAWN UP	CHKD UP	APP'D						

PLANT: SINES INDUSTRIAL COMPLEX		CLIENT REF: REPSOL POLYMEROS		IDENTIFICATION CODE			
Job		Area		N			
4274		2121		CWR40B12			
UNIT		SHEET		REV 00			
PIPING ASSEMBLY DRAWING		PIPING SUPPORT SPECIFICATION		PIPING STANDARD SUPPORT SUMMARY			
19-L-19-000-2-00-85192 sheet 2		XH-SG-000000002		XH-LP-000000001			
PIPING ISOMETRIC LIST		PIPING TYPICAL INSTALLATIONS		WELDING SPECIFICATION			
XH-LD-212100001		XH-SL-000000002		XH-SW-000000001			

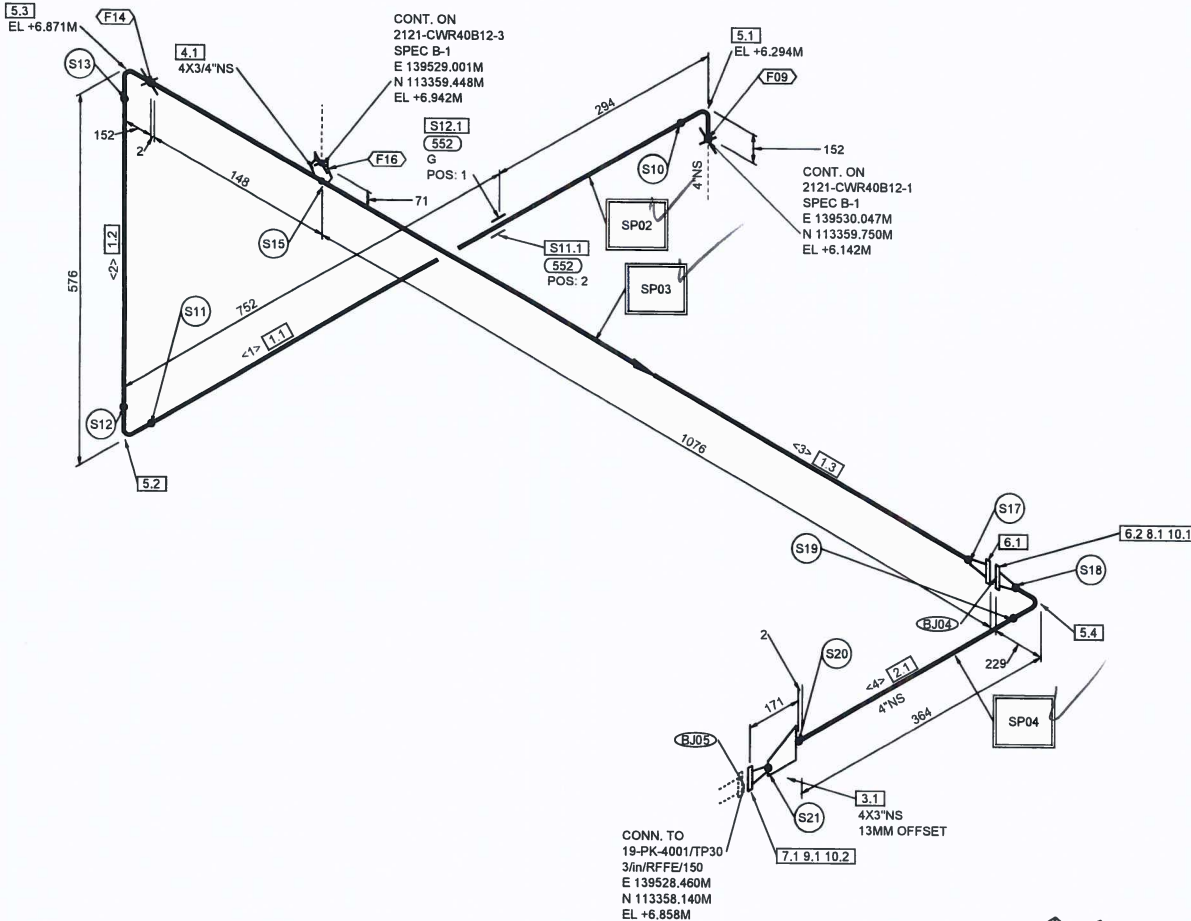
### BILL OF MATERIALS

PS NO	DESCRIPTION	NS (MM)	ITEM CODE	QTY.	HOLD
1	PIPE - A106-B BE SMLS T01AC03V02 S-STD <PIPA010B14STD> (L-7806).	4	1117953	2.2 M	
2	PIPE - A106-B BE SMLS T01AC03V02 S-STD <PIPA010B14STD> (L-7806)	4	1117953	0.3 M	
3	ECCENTRIC REDUCER ASME B16.9 A234-WPB BE SMLS C22DC04V01 S-STD S-STD <ERE200F316151515> (L-7959).	4X3	1128235	1	
4	REDUCING SOCKET MSS-SP-97 3000# A105N BE SWE - R13DNC44V101 NREGD <SOKA300L801611> (L-343)	4X3/4	11651369	1	
5	90 LR ELBOW ASME B16.9 A234-WPB BE SMLS C01DC04V01 S-STD <90LA200F345TD> (L-7955).	4	1128635	4	
6	WN FLANGE ASME B16.5 150# A105N RFFE BE 125 - 250 AARH F01CDC44BV05 S-STD <WNFA300R154STD> (L-149).	4	15355796	2	
7	WN FLANGE ASME B16.5 150# A105N RFFE BE 125 - 250 AARH F01CDC44BV05 S-STD <WNFA300R153STD> (L-149).	3	14217820	1	

### ERECTION MATERIALS




PS NO	DESCRIPTION	NS (MM)	ITEM CODE	QTY.	HOLD
8	FLAT RING GASKET ASME B16.21 150# RFTBE NA/ARAMIDIC/NBR ASME B16.5 G02HDP2QR01 <NMGQ009R1FC4> (L-NMG11)	4	11169033	1	
9	FLAT RING GASKET ASME B16.21 150# RFTBE NA/ARAMIDIC/NBR ASME B16.5 G02HDP2QR01 <NMGQ009R1FC3> (L-NMG11)	3	11169032	1	
10	STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A193-B7/A194-2H INCH SIZE I010B0301 <SB2R51G5/831/2> - 2 NUTS PER BOLT - 90 mm Length	5/8	153437440	12	
11	STAKES SUPPORTS ST06 HEA140	4	552	1	
12	STANDARD GUIDE FOR NOT INS. PIPING-N1G1	4	552	1	

CUT LIST			WELD LIST				BOLT LIST			
PIECE NO	LENGTH (MM)	SIZE (IN)	WELD NO	WELD CAT.	SIZE (IN)	WELD TYPE	BOLT NO	FLANGE SIZE(IN)	SIZE (IN)	LENGTH (MM)
<1>	738	4"	F09	F	4"	BW	BJ04	4"	5/8"	90
<2>	267	4"	S10	S	4"	BW	BJ05	3"	5/8"	90
<3>	444	4"	S11	S	4"	BW				
<4>	210	4"	S12	S	4"	BW				
			S13	S	4"	BW				
			F14	F	4"	BW				
			S15	S	3/4"	OL				
			F16	F	3/4"	SW				
			S17	S	4"	BW				
			S18	S	4"	BW				
			S19	S	4"	BW				
			S20	S	4"	BW				
			S21	S	3"	BW				
							INCH METER			
							PIPE NS (IN)		CL LENGTH (M)	
							4		5.0	
							3		0.1	
ISOMETRIC NO. 4274-SP-XH-DL-2121-CWR40B12-2-IS00							SPOOLING REV NO. 00			



JOAQUIM FINTO  
PIPING SUP. TEN  
Joaquim finto 13/12/2023



 <b>MEC WIDE</b> <small>WELDING EQUIPMENT</small>	Prep.: TG	PROC. NR:	PCL 22635
	Status: IFC	Date: 29-08-2023	Rev: 00
Dimensional:	Signature:		
Before Welding			
After Welding			
* Assinalate deviation in the drawings (* n" or ~ n").			
Autocontrol (visual) registered in the Welder Production Sheet in the field			

## AUTHORISED FOR CONSTRUCTION

SIGNED FOR CONSTRUCTION IS SHOWN ON ISO LIST FOR RELEVANT PIPING AREA

JOINT TYPE	HMEL TYPE OF JOINT	JOINT TYPE	HMEL TYPE OF JOINT	JOINT TYPE	HMEL TYPE OF JOINT	JOINT TYPE	HMEL TYPE OF JOINT
BW	G	BW	S	LET	LET	SOB	B
PW	S	SB	B	LF	RF	BOF	B
LA	RF	BLV	B	MTW	M	THD	TH

1 DENOTES PARTS LIST NO

PIPE SUPPORT

A = RESTING SUPPORT G = GUIDE F = AXIAL RESTRAINT B = GUIDE + STOP M = SPRING  
WHERE A WITHOUT NUMBERING IS INDICATED THIS MEANS THAT THERE IS A REST DIRECTLY ON STEEL STRUCTURE

PROJECT: LOW LINEAL DENSITY POLYETHYLENE (PEL) AND POLYPROPYLENE (PP) FOR PROJECT - ALBA PROJECT