



# INSPECTION TEST CERTIFICATE

**FOOLAD ASA INDUSTRIES CO.**

EN 10204 3.1

Standard: ASME B16.9

Product: Pipe Fittings

Specification: ASTM A420 WPL6

FACTORY: AT A DISTANCE OF 18(km) FROM ZANJAN TO TEHRAN

TEL.: (+98-24) 32462111 & 2 / FAX: (+98-24) 32462113

Certificate No.: 1403-304

Client: HAMIAN SANAAT ENERGY POOYA

Order No.: PR-200

Date: 1403/11/08

ITEM	DESCRIPTION	QTY (PCS)	HEAT NO.	CHEMICAL COMPOSITION %											MECHANICAL PROPERTY			HARDNESS			IMPACT TEST (J)		
				C	Si	Mn	P	S	Cr	Ni	Cb	Cu	Mo	V	Y.S. Mpa	T.S. Mpa	EL. %	HB	°C	1	2	3	
12	CAP SMLS. B.W C/S 6"S/80	2	41015	0.160	0.240	0.970	0.013	0.007	0.020	0.005	<0.005	0.007	0.003	0.002	334	506	31	149	-46	61	67	75	
13	RED.CONC.SMLS.B.W C/S 6"*5"S/80	2	43297	0.110	0.200	0.520	0.016	0.007	0.053	0.015	0.010	0.140	0.010	0.005	314	505	33	155	-46	56	60	64	
14	RED.CONC.SMLS.B.W C/S 2"*11/2"S/80	6	42176	0.032	0.230	0.660	0.011	0.004	0.005	0.014	0.020	0.015	0.003	0.002	330	561	32.1	152	-46	70	73	76	
15	RED.CONC.SMLS.B.W C/S 4"*2"S/80	8	43287	0.078	0.220	0.540	0.019	0.012	0.087	0.067	0.007	0.110	0.013	0.003	323	556	33	155	-46	69	74	76	
16	RED.CONC.SMLS.B.W C/S 4"*3"S/80	2	42166	0.058	0.330	1.210	0.013	0.007	0.098	0.024	0.020	0.063	0.024	0.022	318	546	31.2	150	-46	55	58	60	
17	RED.CONC.SMLS.B.W C/S 4"*2"S/160	4	14767	0.069	0.240	0.990	0.008	0.002	0.047	0.032	<0.005	0.068	0.045	0.032	290	519	31	145	-46	64	74	76	
19	RED.CONC.SMLS.B.W C/S 1/2"*1"S/80	8	43304	0.120	0.200	0.550	0.011	0.007	0.012	0.005	<0.005	0.023	0.003	0.002	323	551	32	155	-46	56	66	70	
20	RED.CONC.SMLS.B.W C/S 2"*1"S/80	2	43302	0.100	0.230	0.600	0.015	0.007	0.018	0.005	0.007	0.021	0.003	0.003	305	522	32	150	-46	58	62	54	
21	TEE.EQU.SMLS.B.W C/S 6"S/80	2	43298	0.052	0.220	1.000	0.013	0.004	0.079	0.015	0.008	0.110	0.006	0.038	305	554	33	152	-46	55	59	52	
22	TEE.UNEQU.SMLS.B.W C/S 4"*2"S/80	3	43296	0.081	0.240	0.540	0.016	0.010	0.071	0.020	0.006	0.031	0.005	0.003	300	544	31	148	-46	61	64	68	
23	TEE.EQU.SMLS.B.W C/S 4"S/80	3	14930	0.110	0.240	1.030	0.018	0.005	0.047	0.019	<0.005	0.070	0.010	0.010	303	522	30	155	-46	48	55	69	
24	TEE.UNEQU.SMLS.B.W C/S 4"*2"S/80	3	43296	0.081	0.240	0.540	0.016	0.010	0.071	0.020	0.006	0.031	0.005	0.003	300	544	31	148	-46	61	64	68	
25	TEE.UNEQU.SMLS.B.W C/S 2"*1"S/80	4	43300	0.100	0.200	0.580	0.020	0.015	0.017	0.005	0.009	0.016	0.003	0.003	311	536	32	148	-46	67	64	62	
26	TEE.EQU.SMLS.B.W C/S 11/2"S/80	2	43303	0.090	0.230	0.530	0.017	0.026	0.022	0.005	0.007	0.018	0.003	0.003	305	519	32	153	-46	58	62	68	
27	TEE.UNEQU.SMLS.B.W C/S 11/2"*1"S/80	2	43040	0.053	0.240	1.080	0.007	0.004	0.068	0.007	0.010	0.028	0.003	0.002	329	508	33	148	-46	61	65	77	
28	TEE.UNEQU.SMLS.B.W C/S 11/2"*3/4"S/80	2	43040	0.053	0.240	1.080	0.007	0.004	0.068	0.007	0.010	0.028	0.003	0.002	329	508	33	148	-46	61	65	77	
29	TEE.UNEQU.SMLS.B.W C/S 4"*11/2"S/80	4	43296	0.081	0.240	0.540	0.016	0.010	0.071	0.020	0.006	0.031	0.005	0.003	300	544	31	148	-46	61	64	68	

**Inspection & Test Results**

Surface & Marking	Dimensions	Nondestructive Test	Heat Treatment
ACCEPTABLE	ACCEPTABLE	RT <input type="checkbox"/> UT <input type="checkbox"/> MT <input type="checkbox"/> PT <input type="checkbox"/>	ACCEPTABLE

**NOTE: ALL ITEMS ARE NORMALIZED (675°C ± 0.5 HR AIR COOLING)**

We hereby certify that the products described herein have been manufactured in accordance above mentioned standard and client P. O. and specification.

*This certificate is valid with original signature, stamp and hologram of FOOLAD ASA.*

Stamp and Signature:

