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CUSTOMER:

CSQCENTRUM KFT

Contract No. **CSO/ 07**

Addendum No: **3**

DISCHARGE: HUNGARY

TEST REPORT

ACC. EN 10204 type 2.2

No. 847 Date:

2009 MARC 04

Number auto: HR 37 WBS / HR 83 WRO

Description product: PRIME LONGITUDINALLY WELDED STEEL TUBES, MNF ACC. TO EN 10255-04 MEDIUM STEEL S235JR

BLACK PLAIN BPE STRAIGHT CUT ENDS SUITABLE FOR GALVANIZING

HOT STRETCH REDUCED.

INTERNAL WELD SEAM REMOVED FOR SIZES $\geq 1"$.

100% TESTED THROUGH NON - DESTRUCTIVE METHODS.

RANDOM HYDROTESTED AT 50 BAR

SURFACE FREE OF OIL / GREASE; WITHOUT ALKALINE PROTECTION.

WITHOUT MARKING/STAMPING ON THE PIPES

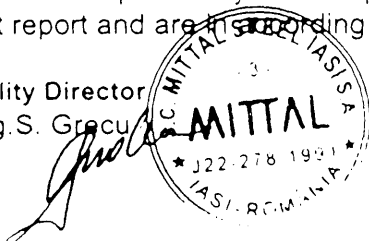
LENGTH: 6000 +100 /-0 mm.

ITEM	PRODUCT DIMENSIONS				QUANTITY			
	DIAMETER CLASS (inches)	DIAMETER MAX.(mm)	DIAMETER MIN.(mm)	WALL THICKNESS (mm)	BUNDLES	PIECES	METERS	KILCGRAMS
1	3/4	27.3	26.5	2.60	11	1397	8382	13076
2	1	34.2	33.3	3.20	3	273	1638	3948
3	1/2	21.8	21.0	2.60	4	676	4056	4908

ITEM	LOT No	GRADE STEEL	HEAT No	CHEMICAL COMPOSITION (%)						MECHANICAL TEST			TECHNOLOGICAL TEST		Hydro Test bar
				C	P	S	Mn	Si	Al	R _m (N/mm ²)	R _{p0.2} (N/mm ²)	A ₅ (%)	Bending	Flattening	
1	1315	S235JR	933854	0.09	0.013	0.017	0.44	0.030	0.037	396	240	40.9	OK	-	50
	1316	S235JR	933854	0.09	0.013	0.017	0.44	0.030	0.037	403	251	38.8	OK	-	50
	1317	S235JR	933854	0.09	0.013	0.017	0.44	0.030	0.037	392	245	40.3	OK	-	50
	1318	S235JR	933854	0.09	0.013	0.017	0.44	0.030	0.037	399	258	39.5	OK	-	50
	1320	S235JR	933854	0.09	0.013	0.017	0.44	0.030	0.037	394	242	39.8	OK	-	50
	1321	S235JR	933854	0.09	0.013	0.017	0.44	0.030	0.037	387	253	40.0	OK	-	50
2	1441	S235JR	918679	0.08	0.013	0.015	0.42	0.026	0.032	399	290	38.3	OK	-	50
	1442	S235JR	918679	0.08	0.013	0.015	0.42	0.026	0.032	396	298	38.7	OK	-	50
	1225	S235JR	910790	0.10	0.014	0.016	0.42	0.026	0.031	383	283	39.3	OK	-	50
3	1227	S235JR	910790	0.10	0.014	0.016	0.42	0.026	0.031	382	278	40.6	OK	-	50
	1228	S235JR	929846	0.10	0.013	0.016	0.43	0.026	0.038	407	299	36.7	OK	-	50

We state on sole responsibility that the product conforms to the requirements mentioned at standard of the present test report and are in accordance with QMS - ISO 9001 and API Spec. Q1.

Quality Director
Eng.S. Gracu



Chief of Technical Control Department
Eng.Z. Anghel