

A02 Inspection certificate "3.1" (EN 10 204)
A03 Document No.: 23722/21
Page: 1/1

A07	Customer's Order (P.O.) No./Item No.: 1145002234	A08	Manufacturer's Works Order No.: 25347/0/21																				
A11	Supplier's Order No.: 3151017038	A10	Advice - Note No.: 8150077719																				
B08. B12/13	Quantity delivered: <table border="1" style="float: right; margin-left: 20px;"> <tr> <td style="width: 33%;">pcs</td> <td style="width: 33%;">mtrs</td> <td style="width: 33%;">kgs</td> </tr> <tr> <td style="text-align: center;">bdl</td> <td style="text-align: center;">feet</td> <td style="text-align: center;">lbs</td> </tr> <tr> <td style="text-align: center;">310</td> <td style="text-align: center;">1860,000</td> <td style="text-align: center;">2318</td> </tr> </table>	pcs	mtrs	kgs	bdl	feet	lbs	310	1860,000	2318	CSÖCENTRUM KFT Vas Gereben utca 4. 1195 Budapest HUNGARY												
pcs	mtrs	kgs																					
bdl	feet	lbs																					
310	1860,000	2318																					
B09-11	Dimensions: 21,3 x 2,60 mm																						
B02	Steel designation: P235TR2 S235JRH																						
B01.B 03. B04	Product, conditions and terms of delivery: Seamless steel tubes, EN 10220/2002, EN 10210-1/06, 2/19 (CE), EN 10216-1/13. Normalized hot finished.																						
A04. B06	Marking: Manufacturer's mark. mill inspector's stamp LO 1  07 0045-CPR-0807-1 LO a.s. LO-001-CPR2020-01-06 EN 10210:2006 S235JRH/1.0039																						
C71-92 B07	Heat chemical analysis (%) <table border="1" style="float: right; margin-left: 20px;"> <tr> <th>Heat No.:</th> <th>C</th> <th>MN</th> <th>SI</th> <th>P</th> <th>S</th> <th>Alt</th> <th>N</th> <th>CEQ</th> </tr> <tr> <td>40435Y</td> <td style="text-align: center;">0,08</td> <td style="text-align: center;">0,55</td> <td style="text-align: center;">0,189</td> <td style="text-align: center;">0,014</td> <td style="text-align: center;">0,009</td> <td style="text-align: center;">0,034</td> <td style="text-align: center;">0,0066</td> <td style="text-align: center;">0,19</td> </tr> </table>		Heat No.:	C	MN	SI	P	S	Alt	N	CEQ	40435Y	0,08	0,55	0,189	0,014	0,009	0,034	0,0066	0,19	C70	Steel made by basic oxygen process. fully killed. strand cast.	
Heat No.:	C	MN	SI	P	S	Alt	N	CEQ															
40435Y	0,08	0,55	0,189	0,014	0,009	0,034	0,0066	0,19															
Z99																							
B07 C04	Test results: Heat No. C00 Specimen No. Requirements: P235TR2 S235JRH		MPa	MPa	% (5d)	C40-43 Impact test		C30-32 Hardness															
		C11 Yield Point	C12 Tensile Strength	C13 Elongation																			
		min. 235 min. 235	360 - 500 360 - 510	min. 25 min. 26			Ø min																
		331 325	410 419	34,4 41,4																			
Z99																							
D01	Visual and dimensional inspection with satisfactory results			X	D51	Hydrostatic test - min. test pressure																	
C50	Flattening test (EN ISO 8492) - satisfactory				D02	The pipes tested on tightness by NDT eddy - current in acc. to EN ISO 10893-1/11 X																	
C51	Expanding test (EN ISO 8493) - satisfactory																						
C52	Bending test (EN ISO 8491) - satisfactory																						
C53	Ring expanding test (EN ISO 8495) - satisfactory				D03	Nondestructive Elektromagnetic Testing																	
C54	Ring tensile test (EN ISO 8496) - satisfactory																						
The manufacturer has an established and certified management system according to ISO 9001:2015, ISO 14001:2015, ISO 50001:2011, ISO 45001:2018.																							
Z01	All pipes conform to the above mentioned standards and ordering requirements and agreements.																						

Z02 Date of issue 14.10.2021/Vo

Tel.:++420 595683644

 A01 Liberty Ostrava a.s.
 A05 QA Department
 Vratimovská 689/117
 719 00 Ostrava-Kunčice
 Czech Republic

Liberty Ostrava a.s.
 Vratimovská 689/117, 719 00 Ostrava - Kunčice
 Rourvny


Bc. Petr Pastucha

 Work's Inspector
 Z02 Validation