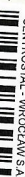


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CELISA
BARCELONA



CENTROSTA, WROCLAW SA
1 1 9 6 7 8 2

MILL INSPECTION CERTIFICATE EN 10.204:2004, Type 3.1.

Norma: EN 10025-1,2/2004-2019 Klient: PRZEDSI#BIORSTWO WIELOBRAN#OWE Odbiorca: PRZEDSI#BIORSTWO WIELOBRAN#OWE Nr dostawy: 202332715
Typ: S 235 JR +AR PE#CZY#SKA 4 PE#CZY#SKA 4 Nr zlecenia: 10859122
N. Med.: EN 10365/2017 50-950 WROC#AW 50-950 WROC#AW Zlecenie kl.: 24/NHS0170
N. Tol.: EN 10034/93 Poland
N/Ref: 04126105 Poland
(B21-31BAL2)

Material (L-length)	Heat Number	C	Mn	Si	S	P	Cr	Ni	Cu	Mo	V	W	Al	N	Ti	CEV	Yield Str. MPa	Ten- sile Str. MPa	Elong. L0= 5.65VSO %
S 235 JR +AR HEA200 L.12.1M	CE251025	0,090	0,610	0,170	0,026	0,027	0,170	0,130	0,360	0,019	0,001	0,005	0,001	0,011	0,001	0,258	317	447	30,6
S 235 JR +AR HEA200 L.12.1M	CE251026	0,100	0,620	0,180	0,030	0,024	0,170	0,120	0,340	0,019	0,001	0,005	0,001	0,0107	0,001	0,272	318	448	29,3

- Product suitable for galvanizing: 0.14<=Si<=0.25 & P<=0.035.
- Surface conditions class C1 as per EN 10163-3.
- Intended use: construction and civil engineering.
- Durability: not determined.
- Regulated substances: not determined

[Signature]



Castellbisbal, 30.04.2024



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Compañía Española de Laminación S.L.
C/ Ferralla nº12,
Polígono Industrial San Vicente S/N
08755 Castellbisbal, Barcelona (Spain)
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celsa
barcelona

CELSA01BCN

EN10025-1:2004

Hot rolled products for structural steels,
types S235/S275/S355 and grades JR/J0/J2

To be used in welded, bolted and riveted structures

Essential characteristics	Performance	
Dimensional and shape tolerances	EN 10056-2	Equal leg angles (L)
	EN 10058	Merchant Rectangular Bars
	EN 10059	Merchant Squared Bars
	EN 10060	Merchant Round Bars
	EN 10024	IPN
	EN 10014	UPE/HE/HB/HLE
	EN 10279	UPE/UPN/BFC
Elongation (%)	Type and grade	Nominal thickness (mm)
		≤3540 >3540 >40563 >63100
	S235JR / JO / J2	26 25 24
	S275JR / JO / J2	23 22 21
Tensile strength (MPa)	Type and grade	Nominal thickness (mm)
		≤3 >3 >100
	S235JR / JO / J2	360 a 510
	S275JR / JO / J2	410 a 560
Yield strength (MPa)	Type and grade	Nominal thickness (mm)
		≤16 >16≤40 >40≤63 >63≤80 >80≤100
	S235JR / JO / J2	235 225 215 215 215
	S275JR / JO / J2	275 265 255 245 235
Impact strength (J)	Type and grade	Temperature (°C)
		20 27
	S235/275/355 JR	0 27
	S235/275/355 JO	-20 27
Weldability (Chemical Composition)	Type and grade	CEV% max
		≤3540 >3540 >40563 >63100
	S235JR / JO / J2	0,35 0,35 0,38
	S275JR / JO / J2	0,40 0,40 0,42
Durability (Chemical Composition)	Type and grade	C % max
		≤40 >40
	S235JR	0,19 0,23
	S235JO	0,19 0,19
	S235J2	0,19 0,19
	S275JR	0,24 0,25
	S275JO	0,21 0,21
	S275J2	0,21 0,21
	S355JR	0,27 0,27
	S355JO	0,23 0,24
	S355J2	0,23 0,24
		Si % max
		Mn % max
		P % max
		S % max
		N % max
		Cu % max