

A large customer-oriented Group

The Alfa Acciai Group, one of Europe's leading manufacturers of reinforcing steel and wire rod for 70 years, is a benchmark in terms of cutting-edge technology, mindful of the employees and with environmental awareness throughout the entire steel supply chain.

With an overall production capacity of 2.5 million tonnes of steel and rolled products and over 1,200 employees.

Focus on ethical corporate social responsibility principles, routine maintenance on installations and operations, caring and listening to stakeholders' requirements: these are the cornerstones on which the Alfa Acciai Group has grown and developed by working in the steel industry for seventy years with standards of excellence.















Unique partnerships based on a clear identity



- **Extensive range of products;**
- The quality of our products, which has always been ensured by ongoing technological innovation, rigorous checks and numerous certifications;
- The immediate availability of products of various grades and sizes to meet all customer requirements promptly;
- Our professionalism and commitment, making the Alfa Acciai Group a reliable partner;
- The consolidated expertise of our technical team, providing our customers with effective solutions;
- Customer support, which proves our reliability and continually maintains strong partnerships;
- A highly efficient and flexible verticalized steel-making facility, firmly based on respect for people and the environment, which is widely recognized as a benchmark in circular economy.

We want to be deserving of the trust our customers place in us, and that's why we listen carefully to their requirements every day.



A range that sets the Group as a benchmark in the EAF steel market

The Alfa Acciai Group aims to be a reference point for customers in the EAF steel industry in terms of **production efficiency**, **product quality and product range**, in order to meet their requirements.

The product range can satisfy demand both in the **construction industry** (with the supply of reinforcing steel in bars, coils and welded mesh, as well as artificial aggregate) and the requirements of **industrial wire rod processing**.

Our extensive and diverse product range always complies with domestic and EU standards and is able to meet customer and market requirements. Moreover, it is optimised with various features such as product traceability, tailor-made customer support, large warehouse stocks of products, and fast, punctual delivery timescales thanks to integrated Group logistics.

This makes the Alfa Acciai Group a valuable partner for the domestic, EU and non-EU markets.





Our commitment to the environment is ongoing and unbending.

It reflects who we are and where we're headed.

For some time, the Alfa Acciai Group has been committed to making steel production increasingly sustainable, through an integrated approach that involves all environmental aspects, full compliance with current legislation and ongoing research into the best technical, management and organisational solutions to make consumption more efficient.

As proof of the policy focusing on ongoing improvement of environmental performance, Alfa Acciai and Acciaierie di Sicilia currently implement ISO 14001 Environmental Management and ISO 5001 Energy Management Systems.

In 2023, the Alfa Acciai Group was one of the first steel mills in Italy to obtain the **Corporate Carbon Footprint** certification for all its production sites.







All our products are awarded the following environmental certificates:

♥ Content of recycled material - UNI/PdR 88:2020, the minimum content
 of recycled material in Alfa Acciai and Acciaierie di Sicilia products is
 99%. This is among the highest in Europe and far exceeds the Minimum
 Environmental Criteria for structural uses indicated by CAM-EDILIZIA,
 which is the most important environmental standard in the construction
 industry.



- ☑ Environmental Product Declaration (EN ISO 14025) to meet LEED requirements
 and help increase the rating value of the end product.
- **⊘** ICMQ ECO Gold
- **SUSTSTEEL**







Our steels are outstanding in terms of uniformity and consistent reproducible mechanical characteristics.

These aspects are essential for enabling our customers to optimise their process parameters and achieve enhanced production performance, especially in the processing stage.





Alfa Acciai

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Acciaierie di Sicilia

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REBAR



Weldable, sustainable reinforcing steel featuring improved bonding and high ductility, low carbon contents, packaged in bars, available in the range of diameters 8-32 mm, hot rolled with in-line heat treatment (Tempcore).

Product characteristics

- Improved bonding;
- ✓ No axial torsion;

Distinctive elements

Optimisation of production parameters in view of obtaining all products in **class C - high ductility**, guaranteeing:

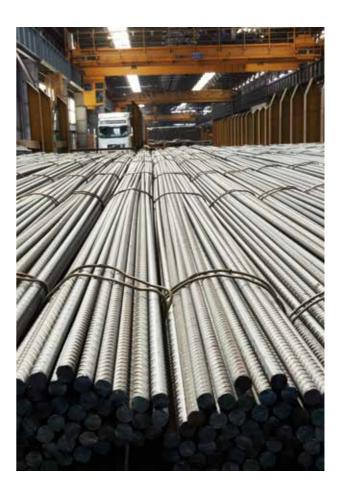
- Optimal mechanical properties for seismic and other applications;
- ✓ Improved packaging for subsequent operations.

Range of dimensions

- Diameter: 8 32 mm
- Bars packaged in bundles
- Bar length: **6-18 m**



Bundle weight: 12 m ~ 2300 kg 6 m ~ 1400 kg







Trade names

- ALFA 500 S
- ALFA 550 S

Rolling marking



Mechanical features*

	fy (Re)	f _y (Re) f _t (Rm)		f _y / f _y nom.		
Grade	N/mm ²	N/mm ²	(Rm/Re)	(Re/Re nom.)	Agt %	
B450C	≥ 450	≥ 540	≥ 1.15 ≤ 1.35	≤ 1.25	≥ 7,5	
B500B	≥ 500	-	≥ 1.08	≤ 1.30	≥ 5	
B500C	≥ 500	-	≥ 1.15 ≤ 1.35	≤ 1.25	≥ 8	
B550B	≥ 550	-	≥ 1.08	-	≥ 5	

^{*} Characteristic values

Chemical composition

C % max	P % max	S % max	Cu % max	N % max	Ceq max
0.22	0.050	0.050	0.80	0.012	0.50
(0.24)	(0.055)	(0.055)	(0.85)	(0.014)	(0.52)

The figures in brackets refer to product analysis

Italy	France	Germany	Switzerland	Croatia	Slovakia	
Carlos Services Section States Section Section Section Section	NP.	#250 ### 1925	EMPA 💝	GH-	TSUS	
B450C	B500B	B500B	B500B	B500B	B500B	
Hungary	Romania	Czech Rep.	Slovenia	Austria	Poland	Serbia
ĽĒMI	O ICECON'SA	ZÚS	ZAG	TUV ALSTRIA Group TU in association with	$oldsymbol{\mathcal{B}}$	△ △ △ △ △ △
B500B - B500C	B500C	B500B	B500B	B550B	B500C	B550B





Weldable, sustainable reinforcing steel featuring improved bonding and high ductility, low carbon contents, packaged in coils, available in the range of diameters 8-16 mm, hot rolled with in-line heat treatment (Tempcore).

Product characteristics

- Excellent uncoiling, even at high speed, as the result of compact packaging with coil-on-coil winding;
- Increased output in t/h thanks to reduced machine downtimes for loading and coil format changeover;
- Reduced production costs as there are no offcuts;
- Compatibility with all welding machines;
- Optimized logistics product high density contributes to reduce handling, transport and storage costs;
- Improved bonding excellent even after straightening;
- No axial torsion prevents bar rotation during straightening thus ensuring perfectly straight;
- Reduced surface oxidation, giving greater weight yield and enhanced cleanliness;
- No welds.

Distinctive elements

Optimisation of production parameters in view of obtaining all products in **class C - high ductility**, guaranteeing:

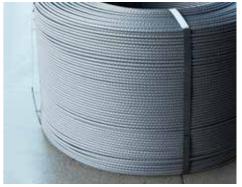
- Optimal mechanical properties for seismic and other applications;
- ✓ Less production energy required;
- Reduced wear of straightening rollers on prebending machines.

Range of dimensions

- Diameter: 8 16 mm
- Coils strapped in 4 positions
- Coil dimensions:
 Ø int. 700 mm
 Ø ext. 1100-1200 mm
 height 700 mm

Spool weight: ~ 3000 kg









Trade names

- ALFA 500 KS
- ALFA 500 S (France)
- ALFA 550 (Austria)
- ALFA B450 C

Rolling marking



Mechanical features*

Grade	fy (Re) N/mm²	ft (Rm) N/mm²	Rm/Re	Re/Re nom.	Agt %	
B450C	≥ 450	≥ 540	≥ 1.15 ≤ 1.35	≤ 1.25	≥ 7.5	
B500B	≥ 500	-	≥ 1.08	≤ 1.30	≥ 5	
B500C	≥ 500	-	≥ 1.15 ≤ 1.35	≤ 1.25	≥ 8	
B550B	≥ 550	-	≥ 1.08	=	≥ 5	

^{*} Characteristic values

Chemical composition

C % max	P % max	S % max	Cu % max	N % max	Ceq max
0.22	0.050	0.050	0.80	0.012	0.50
(0.24)	(0.055)	(0.055)	(0.85)	(0.014)	(0.52)

The figures in brackets refer to product analysis

Italy	France	Germany	Switzerland	Croatia	Slovakia	
Carlotte State Sta	NF	## (TEE)	EMPA 🌼	G u	TSUS	
B450C	B500B	B500B	B500C	B500B	B500B	
Hungary	Romania	Czech Rep.	Slovenia	Austria	Poland	Serbia
ĽĒMI	O ICECON'SA	ZÚS	ZAG	TÜV ALSTRIA Group TÜ in association with	$oldsymbol{B}$	A M 030 23
B500B -B500C	B500C	B500B	B500B	B550B	B500C	B550B





Weldable, sustainable reinforcing steel featuring improved bonding and high ductility, low carbon contents, packaged in coils, hot rolled and cold stretched.

Product characteristics

- Excellent uncoiling, even at high speed, as the result of compact packaging with coilon-coil winding;
- Increased output in t/h thanks to reduced machine downtimes for loading and coil format changeover;
- Reduced production costs as there are no offcuts;
- Ompatibility with all welding machines;
- Optimized logistics product high density contributes to reduce handling, transport and storage costs;
- Improved bonding excellent even after straightening;
- No axial torsion prevents bar rotation during straightening thus ensuring perfectly straight;
- Reduced surface oxidation, giving greater weight yield and enhanced cleanliness.

Distinctive elements

Optimisation of production parameters in view of obtaining all products in **class C - high ductility**, guaranteeing:

- Optimal mechanical properties for seismic and other applications;
- Less production energy required;
- Reduced wear of straightening rollers on prebending machines.

Range of dimensions

- Diameter: 6 16 mm
- Coils strapped in 4 positions
- · Coil dimensions:

Ø int. 630 mm

Ø ext. 1100 - 1200 mm

height 800 - 1000 mm

₩eight

Coil weight:~ 2500 Kg

Coil weight:~ 3000 Kg

Coil weight:~ 5000 Kg



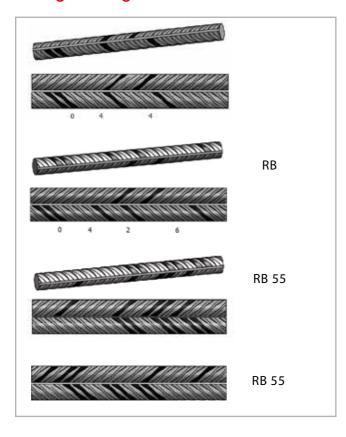




Trade names

- ALFA RB
- ALFA RB 55 (Austria)

Rolling marking



Mechanical features*

01.	fy (Re)	fy (Re) ft (Rm)		fy / fy nom.	A + 0/	
Grade	N/mm²	N/mm²	(Rm/Re)	(Re/Re nom.)	Agt %	
B450C	≥ 450 ≥ 540		≥ 1.15	· ≤ 1.25	≥ 7.5	
	≥ 450	2 340	≤ 1.35	≤ 1.25	21.5	
B500B	≥ 500	-	≥ 1.08	≤ 1.30	≥ 5	
B550B	≥ 550	-	≥ 1.08	-	≥ 5	

^{*} Characteristic values

Chemical composition

C % max	P % max	S % max	Cu % max	N % max	Ceq max
0.22	0.050	0.050	0.80	0.012	0.50
(0.24)	(0.055)	(0.055)	(0.85)	(0.014)	(0.52)

The figures in brackets refer to product analysis

Italy	France	Germany	Switzerland
Carlos Ca	NP	2000 100 100 100 100 100 100 100 100 100	EMPA 🌼
B450C	B500B	B500B	B500B
Slovenia	Austria		
ZAG	TUV AJSTRIA Group TU in association with		
B500B	B550B		





Welded mesh made from high-ductility hot-rolled welding steel *class B450C*. Suitable for use in seismic areas. Produced in standard formats.

MESH TYP	PE CODING
_Mesh size in cm	Sheet format
Wire Ø in mm Sheet format	1 = m 2.00 x 3.00 2 = m 2.25 x 4.00

Product characteristics

Available in all formats and types.







Welded mesh according to Italian Ministerial Decree 17/01/2018 B450C - B450A

Format: 2250x4000 mm	Load information

Type	Wire	Ø mm	Mes	h mm	Cross- mn	section n²/m	Shee	et mm	sheets Pack		ojection nm	Sheet	weight	No	Sheet weight No. of sheets			
Турс	Long.	Transv.	Long.	Transv.	Long.	Transv.	Width	Length	per pack	mm	Long.	Transv.	Tot. kg	kg/m²	Pack	Hold	Load	weight kg
510/2	5	5	100	100	196	196	2250	4000	50	270	50	25	28.03	3.11	50	500	1000	28020
515/2	5	5	150	150	131	131	2250	4000	100	530	50	75	18.60	2.07	100	500	1500	27900
520/2	5	5	200	200	98	98	2250	4000	100	530	100	25	14.32	1.59	100	500	1500	21480
610/2 AD	6	6	100	100	283	283	2250	4000	50	320	50	25	40.40	4.49	50	400	700	28280
615/2 AD	6	6	150	150	189	189	2250	4000	50	320	50	75	26.80	2.98	50	400	1100	29480
620/2 AD	6	6	200	200	142	142	2250	4000	50	320	100	25	20.64	2.29	50	400	1200	24768
810/2 AD	8	8	100	100	502	502	2250	4000	25	220	50	25	71.80	7.98	25	300	400	28720
815/2 AD	8	8	150	150	335	335	2250	4000	30	280	50	75	47.69	5.30	30	300	600	28614
820/2 AD	8	8	200	200	252	252	2250	4000	50	440	100	25	36.70	4.08	50	300	800	29360
1015/2 AD	10	10	150	150	524	524	2250	4000	20	220	50	75	74.5	8.28	20	220	400	29800
1020/2AD	10	10	200	200	393	393	2250	4000	25	270	100	25	57.38	6.37	25	225	500	28692
1220/2AD	12	12	200	200	565	565	2250	4000	25	320	100	25	82.58	9.18	25	200	350	28903
Format: 20	000x300	0 mm																
510/1	5	5	100	100	196	196	2000	3000	100	530	50	50	18.48	3.08	100	500	1600	29568
515/1	5	5	150	150	131	131	2000	3000	100	530	75	25	12.62	2.10	100	500	2000	25240
520/1	5	5	200	200	98	98	2000	3000	100	530	100	100	9.24	1.54	100	500	2000	18480
610/1 AD	6	6	100	100	283	283	2000	3000	50	320	50	50	26.60	4.43	50	400	1100	29260
615/1 AD	6	6	150	150	189	189	2000	3000	50	320	75	25	18.20	3.03	50	400	1600	29120
620/1 AD	6	6	200	200	142	142	2000	3000	50	320	100	100	13.32	2.22	50	400	1600	21312
810/1 AD	8	8	100	100	502	502	2000	3000	25	220	50	50	47.38	7.90	25	300	600	28428
815/1 AD	8	8	150	150	335	335	2000	3000	50	440	75	25	32.35	5.37	50	300	900	29025
820/1 AD	8	8	200	200	252	252	2000	3000	50	440	100	100	23.67	3.95	50	300	1200	28404
1015/1 AD	10	10	150	150	524	524	2000	3000	25	270	75	25	50.59	8.43	25	225	600	30354
1020/1AD	10	10	200	200	393	393	2000	3000	25	270	100	100	36.98	6.17	25	225	800	29616
1220/1AD	12	12	200	200	565	565	2000	3000	25	320	100	100	53,28	8,88	25	200	550	29304







Mechanical features*

Grade	fy (Re)	ft (Rm)	ft / fy	f _y / f _y nom.	Agt %
Graue	N/mm²	N/mm²	(Rm/Re)	(Re/Re nom.)	Ayt %
B450C	≥ 450	≥ 540	≥ 1.15 ≤ 1.35	≤ 1.25	≥ 7.5
B450A	≥ 450	≥ 540	≥ 1.05	≤ 1.25	≥ 2.5

^{*} Characteristic values

Chemical composition

C % max	P % max	S % max	Cu % max	N % max	Ceq max
0.22	0.050	0.050	0.80	0.012	0,50
(0,24)	(0,055)	(0,055)	(0,85)	(0,014)	(0,52)

The figures in brackets refer to product analysis



MESH FRANCE



Welded mesh for structural use made from high-ductility hot-rolled welding steel *class B500B*. Suitable for use in seismic areas. Crack-proof welded mesh made of *B500A* steel. Produced in standard formats.

Product characteristics

- Available in all formats and types;
- Lifting slings available on request.

Welded mesh according to NFA 35080-2-NFA 35-024*

T		Cross-	section	Mesh	Diameter	Wire	Na wina	Dimensions	Nominal	Surface area per	Weight per	Sheets	Pack
Туре		cm²/m	cm²/m	mm	mm	projection mm/mm	No. wires	m	mass kg/m²	sheet m ²	sheet kg	per pack	weight kg
PAF C*	Long.	0.80	0.80	200	4.5	100/100	12	3.60	1.250	0.64	10.00	100	1080
PAF U^	Transv.	0.80	0.80	200	4.5	100/100	18	2.40	1.250	8.64	10.80	100	1080
PAF 10*	Long.	1.19	1.19	200	5.5	100/100	12	4.20	1.870	9.60	18.85	70	1319
PAF IU"	Transv.	1.19	1.19	200	5.5	100/100	21	2.40	1.010	9.00	10.00	70	1319
ST 20	Long.	1.89	1.89	150	6	150/150	16	6.00	2.487	14.40	35.81	40	1432
51 20	Transv.	1.89	1.28	300	7	75/75	20	2.40	2.481	14.40	33.81	40	1432
ST 25	Long.	2.57	2.57	150	7	150/150	16	6.00	3.020	14.40	43.49	40	1740
51 25	Transv.	2.57	1.28	300	7	75/75	20	2.40	3.020	14.40	43.49	40	1740
07.05	Long.	0.05	3.85	100	7	150/150	24	6.00	4.000	14.40	57.00	00	1700
ST 35	Transv.	3.85	1.28	300	7	50/50	20	2.40	4.026	14.40	57.98	30	1739
OT 50	Long.	5.03	5.03	100	8	150/150	24	6.00	F 067	14.40	75.04	00	1517
ST 50	Transv.	5.03	1.68	300	8	50/50	20	2.40	5.267	14.40	75.84	20	1517
07.60	Long.	6.06	6.36	100	9	125/125	24	6.00	6.006	1440	100.00	1.0	1610
ST 60	Transv.	6.36	2.54	250	9	50/50	24	2.40	6.986	14.40	100.60	16	1610
OT 15 O	Long.	1.40	1.42	200	6	100/100	12	4.00	0.000	0.00	01.01	70	1400
ST 15 C	Transv.	1.42	1.42	200	6	100/100	20	2.40	2.220	9.60	21.31	70	1492
ST 25 C	Long.	2.57	2.57	150	7	75/75	16	6.00	4.000	1440	57.00	00	1700
ST 25 U	Transv.	2.57	2.57	150	7	75/75	40	2.40	4.026	14.40	57.98	30	1739
07.05.00	Long.	0.57	2.57	150	7	75/75	16	3.00	1.000	7.00	20.00	40	1160
ST 25 CS	Transv.	2.57	2.57	150	7	75/75	20	2.40	4.026	7.20	28.99	40	1160
OT 40.0	Long.	0.05	3.85	100	7	50/50	24	6.00	6.04	14.40	06.00	00	1740
ST 40 C	Transv.	3.85	3.85	100	7	50/50	60	2.40	6.04	14.40	86.98	20	1740
	Long.		5.03	100	8	50/50	24	6.00				4.5	4700
ST 50 C	Transv.	5.03	5.03	100	8	50/50	60	2.40	7.900	14.40	113.76	15	1706
07.65.6	Long.	6.06	6.36	100	9	50/50	24	6.00	0.000	14.40	140.71	10	
ST 65 C	Transv.	6.36	6.36	100	9	50/50	60	2.40	9.980	14.40	143.71	10	1437









Rolling marking



Mechanical features*

0	fy (Re)	ft (Rm)	ft / fy	f _y / f _y nom.	A t. Or	
Grade	N/mm ²	N/mm ²	(Rm/Re)	(Re/Re nom.)	Agt %	
B500A	≥ 500	-	≥ 1.05	≤ 1.30	≥ 2.5	
B500B	≥ 500	=	≥ 1.08	≤ 1.30	≥ 5	
B600A*	≥ 600	-	1+	-	-	

^{*} Characteristic values

Chemical composition

C % max	P % max	S % max	Cu % max	N % max	Ceq max
0.22	0.050	0.050	0.80	0.012	0.50
(0.24)	(0.055)	(0.055)	(0.85)	(0.014)	(0.52)

The figures in brackets refer to product analysis

Qualifications

France



B500B - B500A - B600A

MESH AUSTRIA



Welded mesh for structural use made from *class B550A* welding steel. Produced in standard formats.

Product characteristics

Available in all formats and types.

Welded mesh according to ÖNORM B 4707

	Туре	Wire	Ø mm	М	esh	per pa	Sheet per pack	Sheet weight		vires per eet	Wire weight per sheet kg				
	,,	Long.	Transv.	Long.	Transv.	Width	Lenght	Long.	Transv.		kğ	Long.	Transv.	Long.	Transv.
	AQ 46	4.6	4.6	100	100	2400	6000	50	50	50	37.57	24	60	18.79	18.79
	AQ 50	5	5	100	100	2400	6000	50	50	50	44.35	24	60	22.19	22.19
	AQ 55	5.5	5.5	100	100	2400	6000	50	50	50	53.86	24	60	26.86	26.86
	AQ 60	6	6	100	100	2400	6000	50	50	25	63.94	24	60	31.96	31.96
	AQ 65	6.5	6.5	100	100	2400	6000	50	50	25	74.88	24	60	37.44	37.44
	AQ 70	7	7	100	100	2400	6000	50	50	25	86.98	24	60	43.49	43.49
	AQ 76	7.6	7.6	100	100	2400	6000	50	50	25	102.53	24	60	51.26	51.26
	AQ 82	8.2	8.2	100	100	2400	6000	50	50	20	119.52	24	60	59.76	59.76
	AQ 90	9	9	100	100	2400	6000	50	50	15	143.71	24	60	71.85	71.85
	AQ 100	10	10	100	100	2400	6000	50	50	10	177.70	24	60	88.85	88.85
_															
	A 70	7	5.5	100	300	2400	6000	150	50	25	52.46	24	20	43.49	8.95
	A 82	8.2	6.5	100	300	2400	6000	150	50	25	72.24	24	20	59.69	12.50









Mechanical features*

	fy (Re)	ft (Rm)	ft / fy	fy / fy nom.	A O.	
Grade	N/mm ²	N/mm ²	(Rm/Re)	(Re/Re nom.)	Agt %	
B550A	≥ 550	≥ 620	≥ 1.05	-	≥ 2.5	

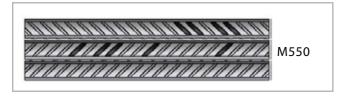
^{*} Characteristic values

Chemical composition

C % max	P % max	S % max	Cu % max	N % max	Ceq max
0.22	0.050	0.050	0.80	0.012	0.50
(0.24)	(0.055)	(0.055)	(0.85)	(0.014)	(0.52)

The figures in brackets refer to product analysis

Rolling marking



Qualifications

Austria

TUV AUSTRIA George TUI
In association with

M550





Welded mesh for structural use made from *class B500B* high-ductility hot-rolled welding steel. Suitable for use in seismic areas.

Product characteristics

Available in all formats and types.

MESH GERMANY Welded mesh according to DIN 488 - B500B

Туре	Wire Ø mm		Mesh		Sheet mm		Wire projection mm		Sheets per pack	Sheet weight	No. of wires per sheet		Wire weight per sheet kg	
Турс	Long.	Transv.	Long.	Transv.	Width	Length	Long.	Transv.	рег раск	kg	Long.	Transv.	Long.	Transv.
Q 188 B	6	6	150	150	6000	2300	75	25	50	41.736	16	40	21.312	20.424
Q 257 B	7	7	150	150	6000	2300	75	25	40	56.776	16	40	28.992	27.784
Q 335 B	8	8	150	150	6000	2300	75	25	30	74.260	16	40	37.920	36.340
Q 424 B	7 - 9	9	150	150	6000	2300	75	25	30	84.356	8 Ø 7 - 8 Ø 9	40	38.448	45.908
Q 524 B	7 - 10	10	150	150	6000	2300	75	25	20	100.876	8 Ø 7 - 8 Ø10	40	44.112	56.764
Q 636 B	7 - 9	10	125	100	6000	2350	62.5	25	20	131.998	8 Ø 7 - 16 Ø 9	48	62.400	69.598
R 188 B	6	6	250	150	6000	2300	125	25	50	33.566	16	24	21.312	12.254
R 257 B	7	6	250	150	6000	2300	125	25	50	41.246	16	24	28.992	12.254
R 335 B	8	6	250	150	6000	2300	125	25	40	50.174	16	24	37.920	12.254
R 424 B	8 - 9	8	250	150	6000	2300	125	25	30	67.212	4 Ø 8 - 12 Ø 9	24	45.408	21.804
R 524 B	8 - 10	8	250	150	6000	2300	125	25	30	75.708	4 Ø 8 - 12 Ø 10	24	53.904	21.804







MESH SWITZERLAND Welded mesh according to SIA 262 – B500B

	Туре	Wire Ø mm		Mesh		Sheet mm		Wire projection mm		Sheets per pack	Sheet weight	No. of wires per sheet		Wire weight per sheet kg	
		Long.	Transv.	Long.	Transv.	Width	Length	Long.	Transv.	рег раск	kg	Long.	Transv.	Long.	Transv.
	K 283	6	6	100	100	2000	5000	50	50	50	44.4	20	50	22.22	22.22
	K 188	6	6	150	150	2000	5000	100	25	50	30.2	14	33	15.54	14.65
	K 335	8	8	150	150	2000	5000	100	25	30	53.7	14	33	27.62	26.04





Mechanical features*

01.	f _y (Re)	ft (Rm)	ft / fy	f _y / f _y nom.	A t. O/	
Grade	N/mm ²	N/mm ²	(Rm/Re)	(Re/Re nom.)	Agt %	
B500B	≥ 500	-	≥ 1.08	≤ 1.30	≥ 5	

^{*} Characteristic values

Chemical composition

C % max	P % max	S % max	Cu % max	N % max	Ceq max
0.22	0.050	0.050	0.80	0.012	0.50
(0.24)	(0.055)	(0.055)	(0.85)	(0.014)	(0.52)

The figures in brackets refer to product analysis

Rolling marking









Quality wire rod made of low/medium-carbon steel for cold rolling and drawing.

Product characteristics

Various grades are produced for the following applications:

- Orawn wires for general use;
- Thin drawn wires;
- Wire for galvanisation, chrome-plating and nickel-plating;
- ♥ Cold-rolled strip and sections;
- Ribbed wire for welded mesh fencing and lattices;
- Production of cold-drawn bars.



Distinctive elements

- Optimised surface oxidation for all types of picking;
- ✓ Wide range of grades and diameters always available.

Range of dimensions

- Diameter: 5.5 6 6.5 7 7.6 8 8.7 9 10 11 12 13 14 15 16
- Bundle strapped in 4 positions
- Bundle dimensions:

Ø int. 850 - 900 mm Ø ext. 1100 - 1200 mm height 1000 - 1100 mm



Bundle weight: ~ 1420 Kg

Wire rod dimensions and tolerances to UNI EN ISO 10017

SVI PEROD

APPLICATION		ALFA ACCIAI BRAND NAME	REFERENCE STANDARD	STANDARD DESCRIPTION
		A34		C4D - C7D
		AC8		C7D - C9D
		AC10 - AC10B	1	C9D - C10D - C12D
		AC15 - AC15B - AC15AL	1	C12D - C15D - C18D
		AC20 - AC20B	1	C15D - C18D - C20D
		AC30	1	C26D - C32D
		AC35	1	C32D - C38D
	For general use	AC40 - AC40B	1	C38D - C42D
	_	AC45	1	C42D - C50D
For cold drawing and rolling,		AC55	EN ISO 16120	C52D - C56D
galvanizing and hot coating		AC60	1	C58D - C60D - C62D
		AC65	1	C62D - C66D
		AC68	1	C66D - C68D - C70D
		AC72		C70D - C72D - C76D
		AC80	1	C80 D
	Bright wire	A34L	1	C4D - C7D
	Thin wire	A34B	1	C4D - C7D
	Wire for galvanizing	A6Zn		C4D - C7D
	Thin wire for galvanizing	A5Zn	1	C4D - C7D
		SAE1006		1006
		SAE1007		1007
		SAE1008	ASTM A510-A510M	1008
Thin wire for galvanizing ar	nd/or welded mesh, nails	SAE1010		1010
		SAE1015		1015
		SAE1018		1018
		\$355J2		\$355J2
Non-alloy steels for sti	ructural applications	S235JR - S235J0 - S235J2	1	S235
·		S275JR - S275J0 - S275J2	EN ISO 10025	S275
High corrosion	n resistance	COR-A		COR-A
		C15E		C15E
Non-alloy case-ha	ardening steels	C15R		C15R
		C35E		C35E
		C35R	EN ISO 683	C35R
Non-alloy steels for que	nching and tempering	C45E		C45E
		C45R		C45R
Medium strer	ngth chains	A15Mn3	DIN 17115	15Mn3
	<u> </u>	AS1		S1
For elect	trodes	AS2	EN ISO 14171	\$2
		AS2Si		S2Si



Acciaierie di Sicilia: Group capability right in the heart of the Mediterranean Sea Acciaierie di Sicilia, based in Catania, is the only steel mill in the heart of the Mediterranean Sea and a major industrial hub in the Region. The company is a key exporter thanks to its proximity to port infrastructure.

This production facility enables the Alfa Acciai Group to provide the international market with products and services that meet the needs of the construction industry in particular, ensuring quality, timeliness and the collaborative relationship that underpins the Group's identity.

Through heavy investment in technological innovation, Acciaierie di Sicilia is able to guarantee high production and quality standards while safeguarding the environment and wellbeing of company employees.















Weldable, sustainable reinforcing steel featuring improved bonding and high ductility, low carbon contents, packaged in bars, available in the range of diameters 8-32 mm, hot rolled with in-line heat treatment (Tempcore).

Product characteristics

- Improved bonding
- ✓ No axial torsion;
- Reduced surface oxidation, giving greater weight yield and enhanced cleanliness.

Distinctive elements

Optimisation of production parameters in view of obtaining all products in **class C - high ductility**, guaranteeing:

Optimal mechanical properties for seismic and other applications.

Range of dimensions

- Diameter: 8 32 mm
- Bars packaged in bundles
- Bar length: 6-15 m

₩eight

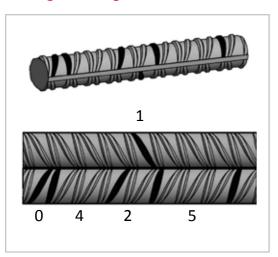
Bundle weight: 12 m ~ 2400 kg 6 m ~ 1300 kg







Rolling marking



Mechanical features*

Grade	fy (Re) N/mm²	ft (Rm) N/mm²	ft / fy (Rm/Re)	f _y / f _y nom. (Re/Re nom.)	Agt %
B450C	≥ 450	≥ 540	≥ 1.15 ≤ 1.35	≤ 1.25	≥ 7.5
B500B	≥ 500	-	≥ 1.08	≤ 1.30	≥ 5
B500C	≥ 500	-	≥ 1.15 ≤ 1.35	≤ 1.25	≥ 8

^{*} Characteristic values

Chemical composition

C % max	P % max	S % max	Cu % max	N % max	Ceq max
0.22	0.050	0.050	0.80	0.012	0.50
(0.24)	(0.055)	(0.055)	(0.85)	(0.014)	(0.52)

The figures in brackets refer to product analysis

Italy	Greece	Germany	Romania	Bulgaria
Control of the State of the Sta	me)	## (1925)	*ICECON"S.A.	TOVPremiand
B450C	B500C	B500B	B500C	B500C





Weldable, sustainable reinforcing steel featuring improved bonding and high ductility, low carbon contents, packaged in coils, available in the range of diameters 8-16 mm, hot rolled with in-line heat treatment (Tempcore).

Product characteristics

- Excellent uncoiling, even at high speed, as the result of compact packaging with coil-on-coil winding;
- Increased output in t/h thanks to reduced machine downtimes for loading and coil format changeover;
- Reduced production costs as there are no offcuts;
- Optimized logistics product high density contributes to reduce handling, transport and storage costs;
- Improved bonding excellent even after straightening;
- No axial torsion prevents bar rotation during straightening thus ensuring perfectly straight;
- Reduced surface oxidation, giving greater weight yield and enhanced cleanliness;
- No welds.

Distinctive elements

Optimisation of production parameters in view of obtaining all products in **class C - high ductility**, guaranteeing:

- Optimal mechanical properties for seismic and other applications;
- Less production energy required;
- Reduced wear of straightening rollers on prebending machines.

Range of dimensions

- Diameter: 8 16 mm
- Coils strapped in 4 positions
- Coil dimensions:
 Ø int. 700 mm
 Ø ext. 1100 1200 mm
 height 700 mm

Spool weight: **1450 kg**









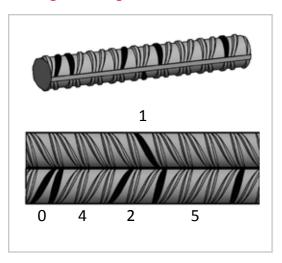
Mechanical features*



Grade	fy (Re)	ft (Rm)	Rm/Re	Re/Re nom.	A art 0/
Grade	N/mm²	N/mm²	niii/ne	ne/ ne Ilolli.	Agt %
B450C	≥ 450	≥ 540	≥ 1.15 ≤ 1.35	≤ 1.25	≥ 7.5
B500C	≥ 500	-	≥ 1.15 ≤ 1.35	≤ 1.25	≥ 8

^{*} Characteristic values

Rolling marking

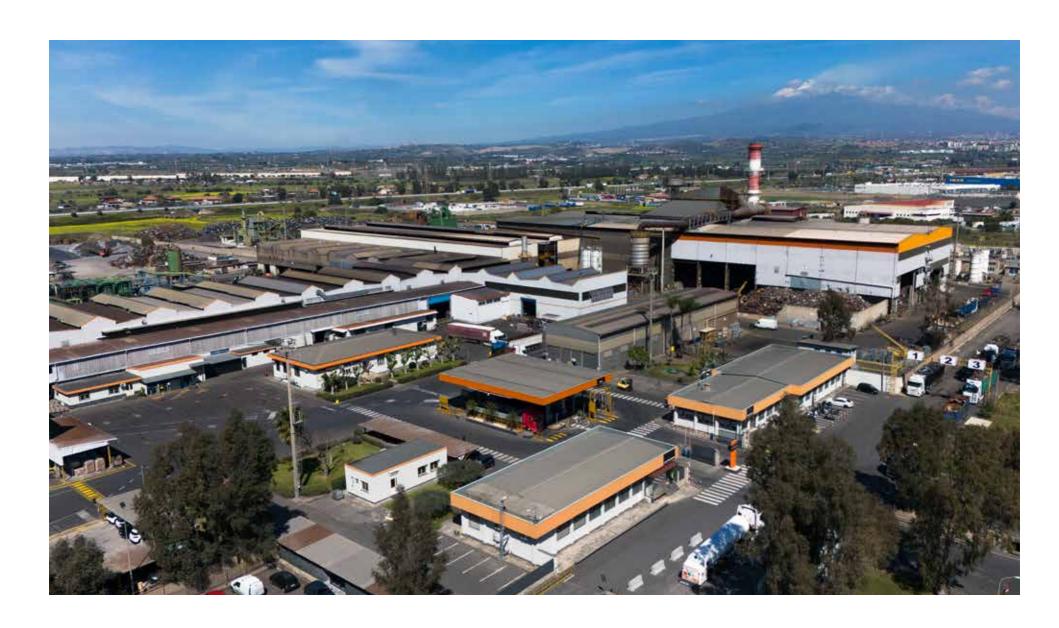


Chemical composition

C % max	P % max	S % max	Cu % max	N % max	Ceq max
0.22	0.050	0.050	0.80	0.012	0.50
(0.24)	(0.055)	(0.055)	(0.85)	(0.014)	(0.52)

The figures in brackets refer to product analysis

Italy	Greece	Romania	Bulgaria
<u>0</u>	(ME)	O ICECON'S.A.	TÚPPhaininaid
B450C	B500C	B500C	B500C



REFERENCE TABLE

CROSS-SECTIONAL AREA AND MASS PER METRE

Diameter mm	CROSS-SECTIONAL AREA mm²	MASS PER METRE kg/m
5	19.63	0.154
5.5	23.76	0.187
6	28.27	0.222
6.5	33.18	0.260
7	38.48	0.302
7.5	44.18	0.347
8	50.27	0.395
8.5	56.75	0.445
9	63.62	0.499
9.5	70.88	0.556
10	78.54	0.617
11	95.03	0.746
12	113.10	0.888
13	132.73	1.042
14	153.94	1.208
15	176.71	1.387
16	201.06	1.578
17	226.98	1.782
18	254.47	1.998
19	283.53	2.226
20	314.16	2.466
21	346.36	2.719
22	380.13	2.984
23	415.48	3.261
24	452.39	3.551

Diameter mm	CROSS-SECTIONAL AREA mm²	MASS PER METRE kg/m
25	490.87	3.853
26	530.93	4.168
27	572.56	4.495
28	615.75	4.834
29	660.52	5.185
30	706.86	5.549
31	754.77	5.925
32	804.25	6.313
33	855.30	6.714
34	907.92	7.127
35	962.11	7.553
36	1017.88	7.990
37	1075.21	8.440
38	1134.11	8.903
39	1194.59	9.378
40	1256.64	9.865
41	1320.25	10.364
42	1385.44	10.876
43	1452.20	11.400
44	1520.53	11.936
45	1590.43	12.485
46	1661.90	13.046
47	1734.94	13.619
48	1809.56	14.205
49	1885.74	14.803



All-round Sustainability

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