WALCOWNIE OSTROWIECKIE

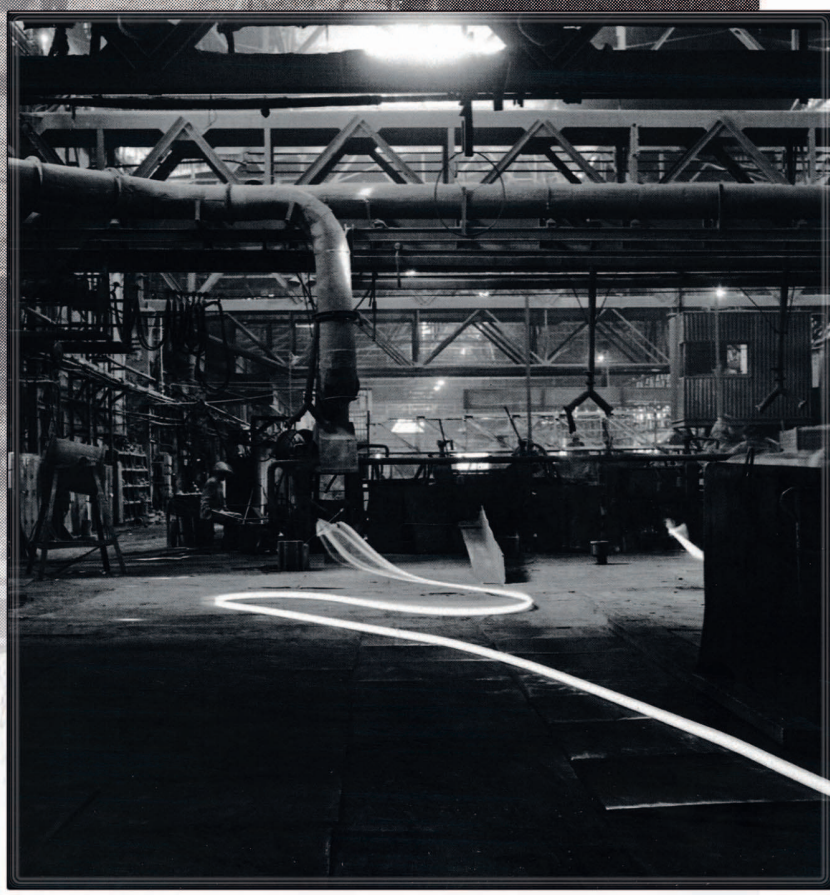
WOST S.A.

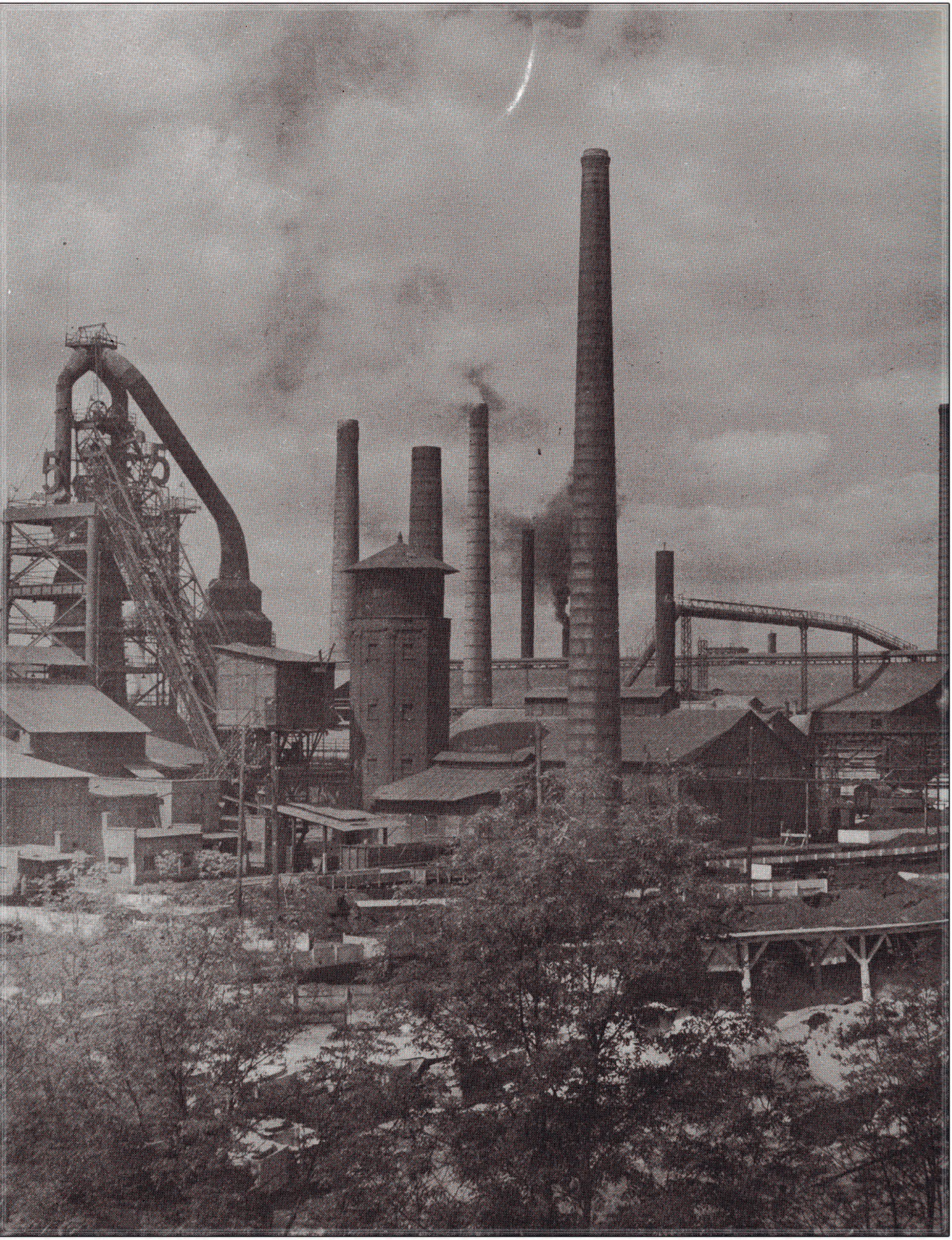
WITH OVER 200 YEARS OF TRADITION

WALCOWNIE OSTROWIECKIE

History

The Ostrowiec Świętokrzyski Steelworks has existed since the beginning of the 19th century. The first rolling mills were opened in the first half of the 19th century. In the interwar years it became part of the Central Industrial District. After the Second World War at steel mill Ostrowiec worked five rolling mills, producing thick and universal sheets, I-beams, channels, angles, T-bars, railway profiles, rails, bars, springs and many others.





About company

Manufacturer of hot rolled angles and t-sections

- productivity - 150 thousand tons per year
- quality - products compliant with European standard EN 10025: 2004
- own lab
- CE and DNV-GL certificates
- WOST S.A. products due to limited silicon content – from 0.15% to 0.25% , they are suitable for galvanizing

- About 15 thousand tons in stock.
- Delivery of material from stock available in 3 days.

Flexibility and adaptation of production according to current market needs. Contracting of long-term supplies.

The implementation of non-standard orders and specialized projects.

Valuable partner in the steelmaking industry:

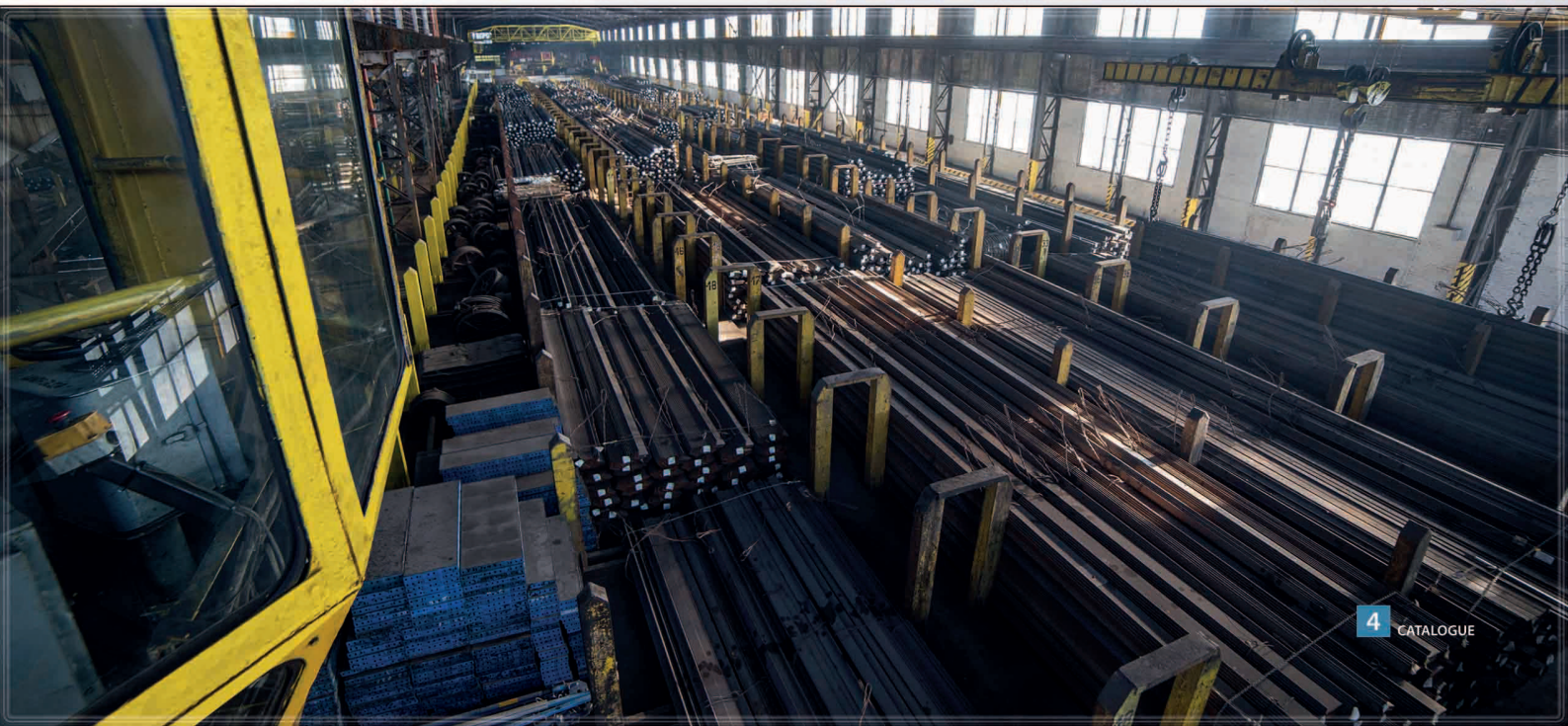
- experience in rolling mill processes
- modern business process management
- short deadlines
- accuracy of execution
- quality guarantee

We produce:

- equal angles with dimensions from 60x60 mm to 180x180 mm
- unequal angles with dimensions from 75x50 mm to 250x90 mm
- T-bars in the dimension range from 100x50 mm to 140x140 mm

Grades:

- steel grades S235, S275, S355, S420, S480
- quality groups JR, J0, J2
- delivery status + AR



Linear cage system

Our furling mill is equipped with a linear cage system, trio type rolling mills (three cylinders) with the rolling system in both directions.
Such a rolling system results in a very high degree of rolling. Processing (ratio of cross-sectional area of input material / cross-sectional area of finished product) which in our case is several times higher than at competition.

The chemical composition, agreed with the producer of the slab with SCS (Strand Cast Steel) ensures the mechanical properties of the finished products that meets the entire requirements of the standards **PN-EN 10025-1:2007, PN-EN 10025-2:2007.**

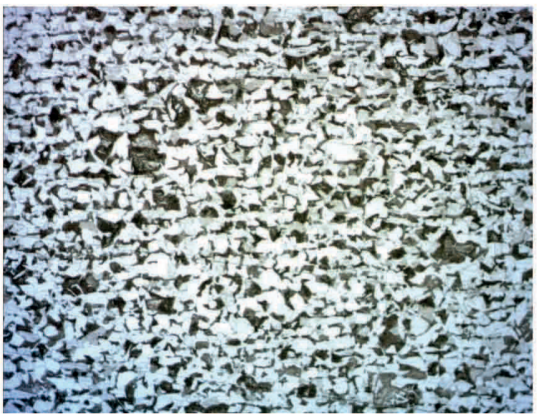
This applies in particular to:

- chemical composition analysis
- the strength parameters Re, Rm, A which are on average 20-25% higher than the standard requirements
- KV impact, which is much higher than the standard required, and often approaches the material after the Standardization process.

Research of steel microstructure after rolling

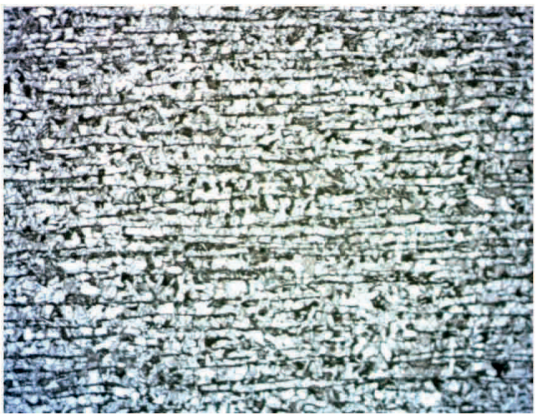
The aim of Toughness and Impact Strength tests is to evaluate mechanical properties of angles made in WOST comparing to angles made outside.
Hot rolled angles in S355J2 grade with carbon content 0,11÷0,16 % were used in researches.

Foreign production



Yield Strength Re – 422, Tensile strength Rm – 506, Impact strength Kv (J) – 31

Own production



Yield Strength Re – 452, Tensile strength Rm – 516, Impact strength Kv (J) – 166

Certificates

The guarantee of quality of WOST S.A. products is ensured in the ZKP certificate issued by ZETOM Katowice, which entitles us to mark our products with the CE mark.
DNV-GL certificate for products intended for the shipbuilding industry.

ZETOM

Zakłady Badań i Atestacji "ZETOM"
im. Prof. F. Stauba w Katowicach sp. z o.o.

ul. Ks. Bpa H. Bednorza 17, 40-384 Katowice, tel.: 0048 32 2569 257
tel/fax: 0048 32 2569 305, e-mail: biuro@zetom.eu

PCA AC 005

ZAKŁAD CERTYFIKACJI

CERTYFIKAT ZGODNOŚCI
ZAKŁADOWEJ KONTROLI PRODUKCJI
Nr 1436 – CPR – 0048

Zgodnie z Rozporządzeniem Parlamentu Europejskiego i Rady (UE) Nr 305/2011 z dnia 9 marca 2011 r. (Rozporządzenie CPR) *niniejszy certyfikat odnosi się do* ***wyrobu budowlanego****:*

Wyroby walcowane na gorąco – kątowniki równoramienne i nierównoramienne oraz teowniki ze stali konstrukcyjnych niestopowych w gatunkach i wymiarach wg Załącznika nr 1, przeznaczone do stosowania w konstrukcjach metalowych lub konstrukcjach zespolonych metalowo-betonowych.

wprowadzonego do obrotu pod nazwą lub znakiem firmowym producenta:
WALCOWNIE OSTROWIECKIE WOST S.A.
ul. Centralnego Okręgu Przemysłowego 12A
27-400 Ostrowiec Świętokrzyski

i produkowanego w zakładzie produkcyjnym:
WALCOWNIE OSTROWIECKIE WOST S.A.
ul. Centralnego Okręgu Przemysłowego 12A
27-400 Ostrowiec Świętokrzyski

Niniejszy certyfikat potwierdza, że wszystkie postanowienia dotyczące oceny i weryfikacji stałości właściwości użytkowych, określone w załączniku ZA normy (norm):

PN-EN 10025-1:2007 IDT EN 10025-1:2004

w ramach systemu 2+ są stosowane oraz że zakładowa kontrola produkcji spełnia mające zastosowanie wymagania.

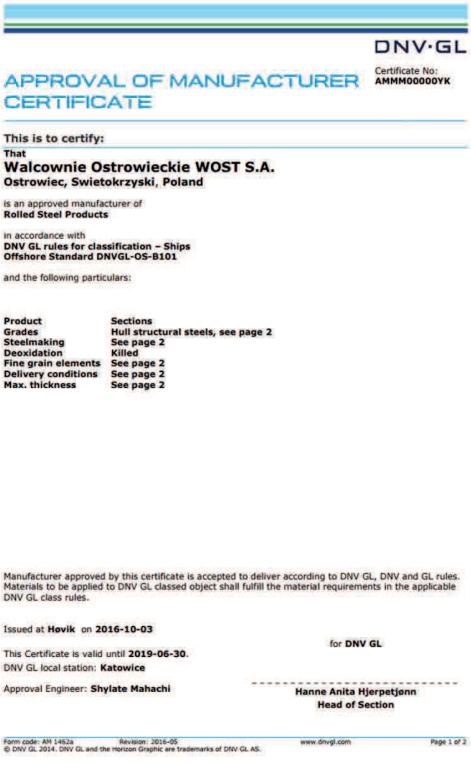
Niniejszy certyfikat został wydany po raz pierwszy w dniu **12.07.2016 r.** *i pozostaje ważny, dopóki zharmonizowana norma, metody oceny i weryfikacji stałości właściwości użytkowych, sam wyrób budowlany i warunki jego wytwarzania nie ulegną istotnej zmianie oraz pod warunkiem, że nie zostanie zawieszony lub cofnięty przez notyfikowaną jednostkę certyfikującą zakładową kontrolę produkcji.*

DYREKTOR ds. CERTYFIKACJI
mgr inż. Ewa Suchon

ZETOM nr 1436

WICEPREZES ZARZĄDU
mgr inż. Edward Makiela

Katowice, dnia 12 lipca 2016 r.



DNV·GL

APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM00000YK

This is to certify:

That
Walcownie Ostrowieckie WOST S.A.
Ostrowiec, Swietokrzyski, Poland

is an approved manufacturer of
Rolled Steel Products

in accordance with
DNV GL rules for classification – Ships
Offshore Standard DNVGL-OS-B101

and the following particulars:

Product	**Sections**
Grades	**Hull structural steels, see page 2**
Steelmaking	**See page 2**
Deoxidation	**Killed**
Fine grain elements	**See page 2**
Delivery conditions	**See page 2**
Max. thickness	**See page 2**

Manufacturer approved by this certificate is accepted to deliver according to DNV GL, DNV and GL rules. Materials to be applied to DNV GL classed object shall fulfill the material requirements in the applicable DNV GL class rules.

Issued at **Høvik** on **2016-10-03**

for **DNV GL**

This Certificate is valid until **2019-06-30**.
DNV GL local station: **Katowice**

Approval Engineer: **Shylate Mahachi**

Hanne Anita Hjerpetjønn
Head of Section

Form code: AM 146.2a Revision: 2016-05 www.dnvgl.com Page 1 of 2
© DNV GL 2014. DNV GL and the Horizon Graphic are trademarks of DNV GL AS.

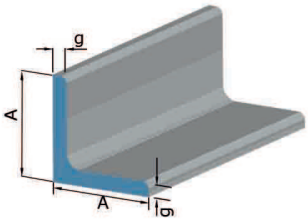
The factory production control system and experienced production crew guarantee the quality of rolled products and prompt delivery of the ordered goods.

The Internal Quality Control Department is responsible for the production process at WOST SA. Steel used in production is in compliance with the requirements of **PN–EN 10025-2:2007.**

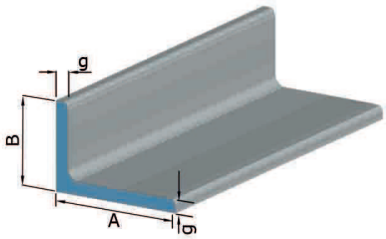
Equal/Unequal Angles and T-sections

EQUAL ANGLES
according to PN-EN 10056-1

Designation	Dimensions [mm]		Weight
	A	g	[kg/m]
60x60x5	60	5	4,57
60x60x6	60	6	5,42
60x60x7	60	7	6,26
60x60x8	60	8	7,09
60x60x9	60	9	7,93
65x65x5	65	5	4,93
65x65x6	65	6	5,91
65x65x7	65	7	6,83
65x65x8	65	8	7,73
65x65x9	65	9	8,62
70x70x5	70	5	5,23
70x70x6	70	6	6,38
70x70x7	70	7	7,38
70x70x8	70	8	8,37
70x70x9	70	9	9,32
75x75x5	75	5	5,76
75x75x6	75	6	6,85
75x75x7	75	7	7,93
75x75x8	75	8	8,99
75x75x9	75	9	10,0
75x75x10	75	10	11,1
75x75x11	75	11	12,1
75x75x12	75	12	13,1
80x80x6	80	6	7,34
80x80x7	80	7	8,49
80x80x8	80	8	9,63
80x80x9	80	9	10,66
80x80x10	80	10	11,9
80x80x12	80	12	14,10
90x90x6	90	6	8,3
90x90x7	90	7	9,61
90x90x8	90	8	10,9
90x90x9	90	9	12,2
90x90x10	90	10	13,4
90x90x16	90	16	20,7
100x100x8	100	8	12,2
100x100x9	100	9	13,6
100x100x10	100	10	15,0
120x120x10	120	10	18,2
120x120x11	120	11	19,9
120x120x12	120	12	21,6
120x120x13	120	13	23,3
120x120x14	120	14	25,0
120x120x15	120	15	26,6



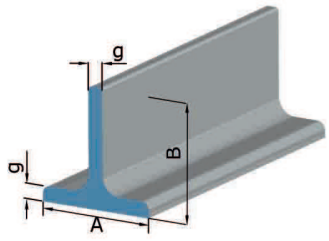
Designation	Dimensions [mm]		Weight
	A	g	[kg/m]
130x130x12	130	12	23,6
130x130x13	130	13	25,4
130x130x14	130	14	27,2
130x130x15	130	15	29,0
130x130x16	130	16	30,9
140x140x10	140	10	21,4
140x140x11	140	11	23,4
140x140x12	140	12	25,4
140x140x13	140	13	27,5
140x140x14	140	14	29,4
140x140x15	140	15	31,4
150x150x10	150	10	23,0
150x150x11	150	11	25,2
150x150x12	150	12	27,3
150x150x13	150	13	29,5
150x150x14	150	14	31,6
150x150x15	150	15	33,8
150x150x16	150	16	35,9
150x150x18	150	18	40,1
150x150x20	150	20	44,2
160x160x12	160	12	29,3
160x160x13	160	13	31,63
160x160x14	160	14	3,9
160x160x15	160	15	36,2
160x160x16	160	16	38,4
160x160x17	160	17	40,7
160x160x18	160	18	42,9
160x160x19	160	19	44,92
160x160x20	160	20	47,3
180x180x14	180	14	38,3
180x180x15	180	15	40,9
180x180x16	180	16	43,5
180x180x17	180	17	46,0
180x180x18	180	18	48,6
180x180x20	180	20	53,7
200x200x16	200	16	48,5
200x200x18	200	18	54,3
200x200x20	200	20	59,9
200x200x22	200	22	65,3
200x200x24	200	24	71,1



UNEQUAL ANGLE
according to PN - EN 10056-1

Designation	Dimensions [mm]			Weight
	A	B	g	[kg/m]
70x50x5	70	50	5	4,60
70x50x6	70	50	6	5,41
70x50x7	70	50	7	6,25
70x50x8	70	50	8	7,07
75x50x5	75	50	5	4,74
75x50x6	75	50	6	5,65
75x50x7	75	50	7	6,51
75x50x8	75	50	8	7,39
75x50x9	75	50	9	8,23
80x40x6	80	40	6	5,41
80x40x7	80	40	7	6,25
80x40x8	80	40	8	7,07
80x65x6	80	65	6	6,60
80x65x7	80	65	7	7,63
80x65x8	80	65	8	8,66
80x65x9	80	65	9	9,68
80x65x10	80	65	10	10,7
90x60x6	90	60	6	6,82
90x60x8	90	60	8	8,96
90x60x10	90	60	10	11,04
100x50x6	100	50	6	6,84
100x50x7	100	50	7	7,92
100x50x8	100	50	8	8,97
100x50x9	100	50	9	11,20
100x50x10	100	5	10	11,10

Designation	Dimensions [mm]			Weight
	A	B	g	[kg/m]
130x90x10	130	90	10	16,6
130x90x12	130	90	12	19,7
150x75x9	150	75	9	15,4
150x75x10	150	75	10	17,0
150x75x11	150	75	11	18,6
150x75x12	150	75	12	20,2
150x75x15	150	75	15	24,8
150x90x10	150	90	10	18,2
150x90x11	150	90	11	19,9
150x90x12	150	90	12	21,6
150x90x13	150	90	13	23,4
150x90x14	150	90	14	25,2
150x100x9	150	100	9	17,6
150x100x10	150	100	10	19,0
150x100x12	150	100	12	22,5
150x100x14	150	100	14	26,1
150x100x15	150	100	15	27,8
160x80x10	160	80	10	18,2
160x80x12	160	80	12	21,6
160x80x14	160	80	14	25,0
180x90x10	180	90	10	20,6
180x90x12	180	90	12	24,5
180x90x14	180	90	14	28,3
200x100x10	200	100	10	23,0
200x100x12	200	100	12	27,3
200x100x14	200	100	14	31,6
200x100x15	200	100	15	33,8
200x100x16	200	100	16	35,9
250x90x10	250	90	10	26,1
250x90x12	250	90	12	31,1
250x90x14	250	90	14	36,0
250x90x16	250	90	16	40,9



T-BAR
according to PN-EN 10055
+ DIN 1024

Designation	Dimensions [mm]			Weight
	A	B	g	[kg/m]
100x50x8,5	100	50	8,5	9,42
100x100x11	100	100	11	16,40
	A	B	g	[kg/m]
120x120x13	120	-	13	23,2
140x140x15	140	-	15	31,3

Made of steel grade S235, S275, S355 according to PN-EN 10025-2 and other species to be agreed upon.
Length range: 3000 mm - 15000 mm

WALCOWNIE OSTROWIECKIE

WOST S.A.

SALES DEPARTMENT:

TEL: +48 41 389 29 69 FAX: +48 17 850 15 28

TEL: +48 41 389 29 60

st. Centralnego Okręgu Przemysłowego 12A

27-400 Ostrowiec Świętokrzyski