

Plates



CONTENT

01. CONSTRUCTION AND GENERAL INDUSTRY

Metinvest production in Ukraine

European standards	5
American standards	6
Ukrainian and CIS standards	7
Other standards	8

Metinvest production in Europe

European standards	9
American standards	9

02. PRESSURE VESSELS

Metinvest production in Ukraine

European standards	11
American standards	12
Ukrainian and CIS standards	13

Metinvest production in Europe

European standards	14
American standards	15

03. MECHANICAL ENGINEERING

Metinvest production in Ukraine

European standards	17
American standards	17
Ukrainian and CIS standards	18

Metinvest production in Europe

European standards	19
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04. PIPELINE, OFFSHORE AND ENERGY

Metinvest production in Ukraine

European standards	21
American standards	21
Ukrainian and CIS standards	22

Metinvest production in Europe

European standards	23
American standards	23

05. SHIPBUILDING

Metinvest production in Ukraine

American standards	25
Ukrainian and CIS standards	25
Shipping Registers	26

Metinvest production in Europe

American standards	28
Shipping Registers	28

CONTACTS	29
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Plates production (annual capacity, kt)

 **400**
FERRIERA VALSIDER

 **220**
SPARTAN UK

 **2 100**
AZOVSTAL

 **600**
TRAMETAL

 **2 400**
ILYICH STEEL

Product	Standard	Steel grade	Thickness, mm	Width, mm	Length, mm	Weight, t
Non-alloy structural steels	EN 10025-2	S235JR, S235J0, S235J2	6 - 200			
		S275JR, S275J0, S275J2				
		S355JR, S355J0, S355J2, S355K2				
		E335				
Normalized rolled fine-grained structural steels	EN 10025-3	S275N, S275NL	6 - 200			
		S355N, S355NL	6 - 100			
		S420N, S420NL				
		S460N, S460NL				
Thermomechanically rolled fine-grained structural steels	EN 10025-4	S275M, S275ML	6 - 50			
		S355M, S355ML				
		S420M, S420ML				
		S460M, S460ML				
Structural steels with improved atmospheric corrosion resistance	EN 10025-5	S235J0W, S235J2W	6 - 130			
		S355J0W, S355J2W, S355K2W				
Fine-grained structural steels, quenched and tempered	EN 10025-6	S690Q, S690QL, S690QL1	8 - 100	1500 - 3200	6000 - 12500	12.3 max
		S890Q	8 - 25			
Non-alloy structural steels	EN 10025 + A1:1993	S235JR, S235JRG1, S235JRG2, S235J0, S235J2G3, S235J2G4	6 - 200			
		S275JR, S275JRG1, S275JRG2, S275J0, S275J2G3, S275J2G4				
		S355JR, S355JRG2, S355J0, S355J2G3, S355J2G4, S355K2G3, S355K2G4				
Structural steels for general applications	DIN 17100	St 33, St 37-2, St 37-3, RSt 37-2, USt 37-2, St 44-2, St 44-3, St 52-3				

Dimensions, technical requirements and weight of the products should be agreed during the conclusion of contracts. For plates with thickness 135-200 mm mechanical properties should be agreed during the conclusion of contract.

Metinvest production in Ukraine

American standards

Product	Standard	Steel grade	Thickness, mm	Width, mm	Length, mm	Weight, t
Carbon structural steels	ASTM A36/ A36M	A36/ A36M	6 - 200	1500 - 3200	6000 - 12500	12.3 max
	ASME SA36/ SA36M	SA36				
Carbon steel plates for general application	ASTM A283/ A283M	A, B, C, D	6 - 200			
	ASME SA283/ 283M	D				
Quenched and tempered alloy steel plates	ASTM A514/ A514M	B	8 - 31.8			
		F	8 - 65			
		H	8 - 50.8			
		Q	8 - 152.4			
High-strength low-alloy structural steels	ASTM A572/ A572M	42	6 - 150			
		50	6 - 100			
		55	6 - 50			
		60	6 - 32			
		65				
Structural carbon steel plates of improved toughness	ASTM A573/ A573M	58, 65, 70	6 - 40			
High-strength low-alloy structural steel	ASTM A588/ A588M	A, B	6 - 200	1500 - 2700	6000 - 12500	9.4 max
		K	6 - 50			
Normalized high-strength low-alloy structural steel plates	ASTM A633/ A633M	A	8 - 50	1500 - 3200	6000 - 12200	12.3 max
Carbon and high-strength low-alloy structural steel for bridges	ASTM A709/ A709M	36, 50, 50W	6 - 100		6000 - 12500	
Carbon steel plate, furnished to chemical composition requirements	ASTM A830/ A830M	1045	8 - 200		6000 - 12200	

Dimensions, technical requirements and weight of flat products should be agreed during the conclusion of contracts. For plates with thickness 135-200 mm mechanical properties should be agreed during the conclusion of contract.

Metinvest production in Ukraine

Ukrainian and CIS standards

Product	Standard	Steel grade	Thickness, mm	Width, mm	Length, mm	Weight, t
Carbon steel rolled plates	DSTU 8803/ GOST 14637	St2ps, St2sp, St3ps, St3sp, St3Gps, St3Gsp, St4ps, St4sp, St5ps, St5sp, St5Gps	6 - 200	1500 - 3200	6000 - 12500	12,3 max
Structural steel rolled plates	GOST 1577	08, 10, 15, 20, 25, 30, 35, 40, 45, 50, 65G, 20H, 40H				
Rolled steel with increased strength	DSTU 8541/ GOST 19281	09G2S, 09G2SD, 09G2D, 10G2S, 14G2, 15GF, 16GS, 17GS, 17G1S, 17G1S-U, 16G2AF and other				
Structural steel rolled plates	DSTU 8539/ GOST 27772	C235, C245, C255, C275, C345, C345K, C355, C390, C390K, C440				
Structural alloy steels	DSTU 7806/ GOST 4543	30HGSA	8 - 200	1500 - 3200	6000 - 12200	
Alloy structural high-grade rolled steel plates for special purposes	GOST 11269		6 - 40			
Low-alloy structural rolled steel for bridges	DSTU 8817/ GOST 6713	16D	8 - 60			
		15HSND	8 - 50			
		10HSND	8 - 40			
Alloy structural rolled steel for bridges	GOST P 55374	10HSND, 15HSND	8 - 50			
High strength low-alloy steel plates	TU 5.961-11650-97	AB2-M (12HN3M)	8 - 35	2000 - 3200	6000 - 10000	
Low-alloy steel plates with improved weldability and cold resistance	TU 14-1-4083-86	13GS, 13GS-U, 13G1S-U, 08G2BT-U, 09G2FB, 10G2FB	8 - 50	1500 - 3200	6000 - 11800	

Dimensions, technical requirements and weight of flat products should be agreed during the conclusion of contracts. For plates with thickness 135-200 mm mechanical properties should be agreed during the conclusion of contract.

Metinvest production in Ukraine

Other standards

Product	Standard	Steel grade	Thickness, mm	Width, mm	Length, mm	Weight, t
Structural steels for general application	CSA-G 40.21	260W (33W), 260WT (33WT), 300W (44W), 300WT (44WT), 350W (50W), 350WT (50WT), 380W (55W), 380WT (55WT), 400W (60W), 400WT (60WT)	6 - 100	1500 - 3200	6000 - 12500	12.3 max
	JIS G 3101	SS330, SS400, SS490, SS540	6 - 200			
Rolled steels for welded structure	JIS G 3106	SM400A, SM400B	6 - 150	1500 - 2700	6000 - 12500	9.4 max
		SM400C	6 - 100			
		SM490A, SM490B	6 - 150			
		SM490C	6 - 50			
		SM490YA, SM490YB	8 - 100			
Structural steel plates	JIS G 3136	SH490B	8 - 50	1500 - 3200	6000 - 12200	12.3 max
	IRA M-IAS U500-42	F-24	8 - 150			
Hot rolled medium and high tensile structural steels	IS 2062	FE410WB	8 - 120			

Dimensions, technical requirements and weight of flat products should be agreed during the conclusion of contracts. For plates with thickness 135-200 mm mechanical properties should be agreed during the conclusion of contract.

Metinvest production in Europe

European standards

Product	Standard	Steel grade	Thickness, mm	Width, mm	Length, mm	Weight, t
Non-alloy structural steels	EN 10025-2	S185	4 - 180	1500 - 3150	4000-25000	35 max
		S235JR, S235J0, S235J2				
		S275JR, S275J0, S275J2				
		S355JR, S355J0, S355J2, S355K2				
Normalized rolled fine-grained structural steels	EN 10025-3	S275N	4 - 150	1500 - 3150	4000-25000	30 max
		S275NL				
		S355N				
		S355NL	8 - 100			20 max
Structural steels with improved atmospheric corrosion resistance	EN 10025-5	S355J0W, S355J2W, S355K2W	5 - 100			

Dimensions, technical requirements and weight of flat products should be agreed during the conclusion of contracts.

American standards

Product	Standard	Steel grade	Thickness, mm	Width, mm	Length, mm	Weight, t
Carbon structural steels	ASTM A36/A36M	A36/ A36M	4 - 150	1500 - 3150	4000-25000	30 max
Carbon steel plates for general application	ASTM A283/A283M	C, D				20 max
High-strength low-alloy structural steels	ASTM A572/A572M	50	4 - 100	1500 - 3150	4000-25000	14 max
		55	5 - 50			
		60	8 - 32			
Structural carbon steel plates of improved toughness	ASTM A573/A573M	58, 65, 70	4 - 40	1500 - 3150	4000-25000	16 max
High-strength low-alloy structural steels	ASTM A588/A588M	A, B	4 - 80			
Normalized high-strength low-alloy structural steel plates	ASTM A633/A633M	A, C, D	4 - 100			
		E	8 - 100			
Carbon and high-strength low-alloy structural steels for bridges	ASTM A709/A709M	50 type 1, type 2	4 - 100	1500 - 3150	4000-25000	16 max
		50W type A, type B	5 - 80			

Dimensions, technical requirements and weight of flat products should be agreed during the conclusion of contracts.

Product	Standard	Steel grade	Thickness, mm	Width, mm	Length, mm	Weight, t
Non-alloy and alloy steels with specified elevated temperature properties	EN 10028-2	P235GH, P265GH, P295GH, P355GH, 16Mo3	6 - 130	1500 - 3200	6000 - 12500	12.3 max
Weldable normalized fine grain steels	EN 10028-3	P275NH, P275NL1, P355N, P355NH	6 - 100			
		P460NH, P460NL1, P460NL2	8 - 50			
Weldable hermo-mechanically rolled fine grain steels	EN 10028-5	P355M, P355ML, P355ML2, P420M, P420ML, P420ML2, P460M, P460ML, P460ML2	8 - 50	1500 - 3200	6000 - 12200	12.3 max
Steels for simple pressure vessels	EN 10207	P235S, P265S, P275SL	8 - 60			
Steels for pressure purposes	BS 1501-1	151-430A, 151-430B, 161-430A, 161-430B, 223-490A, 223-490B, 224-460A, 224-460B, 224-490A, 224-490B	8 - 150			

Dimensions, technical requirements and weight of flat products should be agreed during the conclusion of contracts. For plates with thickness 135-200 mm mechanical properties should be agreed during the conclusion of contract.

American standards

Product	Standard	Steel grade	Thickness, mm	Width, mm	Length, mm	Weight, t
Pressure vessel alloy steel plates	ASME SA202/ SA202M	A, B	8 - 50	1500 - 3200	6000 - 12200	12.3 max
Pressure vessel carbon steel plates	ASME SA285/ SA285M	A, B, C	6 - 50		6000 - 12500	
	ASTM A285/ A285M					
Pressure vessel manganese-silicon carbon steel plates	ASTM A299/ A299M	A	8 - 135		6000 - 12200	
Pressure vessel carbon steel plates	ASME SA515/ SA515M	60, 65, 70	6 - 135		6000 - 12500	
	ASTM A515/ A515M					
	ASME SA516/ SA516M	55, 60, 65, 70				
	ASTM A516/ A516M					
Pressure vessel quenched and tempered alloy steel plates	ASTM A517/ A517M	B	8 - 32		6000 - 12200	
		F	8 - 65			
		Q	8 - 135			
Pressure vessel heat-treated carbon-manganese-silicon steel plates	ASME SA537/ SA537M	Class 1	8 - 50			
		Class 2	8 - 130			
		Class 3				

Dimensions, technical requirements and weight of flat products should be agreed during the conclusion of contracts. For plates with thickness 135-200 mm mechanical properties should be agreed during the conclusion of contract.

Ukrainian and CIS standards

Product	Standard	Steel grade	Thickness, mm	Width, mm	Length, mm	Weight, t
Carbon, low-alloy and alloy steel plates for boilers and pressure vessels	DSTU 8804/ GOST 5520	15K, 16K, 18K, 20K	6 - 60	1500 - 3200	6000 - 12500	12.3 max
		22K	8 - 100			
		09G2S, 16GS, 10G2S1, 12HM	6 - 135			
		17GS, 17G1S	6 - 50			
		10H2M	8 - 50			
		14HGS	8 - 10			
Steel plates for gas and petrochemical industry	TU 14-1-4853-90	20UCh	8 - 135		6000 - 12200	
Low-alloy steel plates for pressure vessels	TU 14-1-5065-2006	09G2SUCH	8 - 50			

Dimensions, technical requirements and weight of flat products should be agreed during the conclusion of contracts. For plates with thickness 135-200 mm mechanical properties should be agreed during the conclusion of contract.

European standards

Product	Standard	Steel grade	Thickness, mm	Width, mm	Length, mm	Weight, t
Non-alloy and alloy steels with specified elevated temperature properties	EN 10028-2	P235GH, P265GH, P295GH, P355GH	4 - 120	1500 - 3150	4000 - 25000	25 max
		16Mo3	5 - 100			20 max
		13CrMo4-5	8 - 80			16 max
Weldable normalized fine grain steels	EN 10028-3	P275NH, P275NL1, P275NL2, P355N, P355NH, P355NL1, P355NL2	4 - 120	1500 - 3150	4000 - 25000	25 max
		P420NH, P420NL1, P420NL2	8 - 100			20 max
		P460NH, P460NL1, P460NL2	8 - 100			20 max
Nickel alloy steels with specified low temperature properties	EN 10028-4	13MnNi6-3	8 - 40	1500 - 3150	4000 - 25000	14 max
		12Ni14	8 - 50			14 max
Weldable fine grain steel for dangerous product transportation	NF A36-215:1997	P440NJ4	8 - 20	1500 - 3150	4000 - 25000	12 max
		P460NJ2	8 - 16			10 max

Dimensions, technical requirements and weight of flat products should be agreed during the conclusion of contracts.

American standards

Product	Standard	Steel grade	Thickness, mm	Width, mm	Length, mm	Weight, t
Pressure vessel alloy steel plates	ASME SA203/SA203M	D, E	8 - 60	1500 - 3150	4000 - 25000	14 max
	ASTM A203/A203M					
Pressure vessel carbon steel plates	ASME SA285/SA285M	A, B, C	4 - 50	1500 - 3150	4000 - 25000	16 max
	ASTM A285/A285M					
Pressure vessel manganese-silicon carbon steel plates	ASME SA299/SA299M	A	5 - 80	1500 - 3150	4000 - 25000	16 max
	ASTM A299/A299M					
Pressure vessel alloy steel plates	ASME SA387/SA387M	Grade 11 Cl.1, Grade 11 Cl.2, Grade 12 Cl.1, Grade 12 Cl.2	8 - 80	1500 - 3150	4000 - 25000	18 max
	ASTM A387/A387M					
Pressure vessel carbon steel plates	ASME SA516/SA516M	55, 60, 65, 70	4 - 90	1500 - 3150	4000 - 25000	18 max
	ASTM A516/A516M					
Pressure vessel heat-treated carbon-manganese-silicon steel plates	ASME SA537/SA537M	Class 1	4 - 80	1500 - 3150	4000 - 25000	16 max
	ASTM A537/A537M					
Pressure vessel carbon-manganese-silicon steel plates	ASME SA662/SA662M	A, B, C	4 - 50	1500 - 3150	4000 - 25000	16 max
	ASTM A662/A662M					

Dimensions, technical requirements and weight of flat products should be agreed during the conclusion of contracts.

European standards

Product	Standard	Steel grade	Thickness, mm	Width, mm	Length, mm	Weight, t
Thermomechanically rolled steels for cold forming	EN 10149-2	S315MC, S355MC, S420MC, S460MC	6 - 20*	1500 - 3200	6000 - 12500	12.3 max
		S500MC, S550MC, S600MC	6 - 16*			
Non-alloy steels for quenching and tempering	ISO 683-1/ EN 10083-2	C45	6 - 200			
Alloy steels for quenching and tempering	ISO 683-2/ EN 10083-3	20MnB5, 30MnB5, 38MnB5, 39MnB5, 27MnCrB5, 33MnCrB5, 39MnCrB6, 42CrMo4	6 - 100			
Steels for quenching and tempering	DIN 17200	C45, Ck45	8 - 200		6000 - 12200	

* Production of TMCP plates with thickness over the specified by EN 10149-2 should be agreed during contract conclusion. Dimensions, technical requirements and weight of flat products should be agreed during the conclusion of contracts. For plates with thickness 135-200 mm mechanical properties should be agreed during the conclusion of contract.

American standards

Product	Standard	Steel grade	Thickness, mm	Width, mm	Length, mm	Weight, t
Carbon steels for general application	SAE J 403	G10120/1012, G10200/1020, G10210/1021, G10450/1045	8 - 150	1500 - 3200	6000 - 12200	12.3 max

Dimensions, technical requirements and weight of flat products should be agreed during the conclusion of contracts. For plates with thickness 135-200 mm mechanical properties should be agreed during the conclusion of contract.

Metinvest production in Ukraine

Ukrainian and CIS standards

Product	Standard	Steel grade	Thickness, mm	Width, mm	Length, mm	Weight, t
Spring steel	DSTU 8429/ GOST 14959	65, 70, 65G	6 - 100	1500 - 3200	6000- 12500	12.3 max
Steel plates for engineering	TU U 27.1-26416904- 201-2010	25HGSR	8 - 40		6000- 12200	
	TU 14-1-5517-2005	16H2GSB				
	Technical requirements (TT) of the customer	16HGMFTR	8 - 60			
	TU 5.961-11650-97	AB2-M (12HN3M)	8 - 35			
	TU U 27.1-26416904- 150-2005	06GB, 06GBD, 06G2BD	8 - 50			

Dimensions, technical requirements and weight of flat products should be agreed during the conclusion of contracts.
For plates with thickness 135-200 mm mechanical properties should be agreed during the conclusion of contract.

Metinvest production in Europe

European standards

Product	Standard	Steel grade	Thickness, mm	Width, mm	Length, mm	Weight, t
Non-alloy steels for quenching and tempering	ISO 683-1/ EN 10083-2	C40, C45, C40E, C45E, C50E	8 - 150	1500 - 3150	4000 - 25000	35 max
Alloy steels for quenching and tempering	ISO 683-2/ EN 10083-3	20MnB5, 30MnB5, 38MnB5, 27MnCrB5, 33MnCrB5, 39MnCrB6, 34CrMo4, 42CrMo4	7 - 50			18 max
Case hardening steels	ISO 683-3/ EN 10084	16MnCr5, 20MnCr5	8 - 150			34 max

Dimensions, technical requirements and weight of flat products should be agreed during the conclusion of contracts.

Metinvest production in Ukraine

European standards

Product	Standard	Steel grade	Thickness, mm	Width, mm	Length, mm	Weight, t
Plates for welded pipes production	EN 10208-1	L210GA - L360GA	9 - 32*	1500 - 3200	6000-12200	12.3 max
	EN 10208-2	L245NB - L415NB, L245MB - L485MB				
Weldable structural steels for fixed off-shore structures	EN 10225	S355G2+N, S355G5+M	8 - 20			
		S355G3+N, S355G6+M	8 - 40			
		S355G7+N, S355G8+N, S355G9+N, S355G10+N	8 - 150			
		S355G7+M, S355G8+M, S355G9+M, S355G10+M, S420G1+M, S420G2+M, S460G1+M, S460G2+M	8 - 50			
		S420G1+Q, S420G2+Q, S460G1+Q, S460G2+Q	8 - 100			
Steel plate for oil and gas pipe production	ISO 3183	L415NE/X60NE PSL2	8 - 12.5			

* For thickness over 22 mm producer's approval is required.
Dimensions, technical requirements and weight of flat products should be agreed during the conclusion of contracts.
For plates with thickness 135-200 mm mechanical properties should be agreed during the conclusion of contract.

American standards

Product	Standard	Steel grade	Thickness, mm	Width, mm	Length, mm	Weight, t
Plates for welded pipes production	Technical requirements for the supply of plates ANSI/API 5L	BM/L245M, X42/L290, X46/L320, X52/L360, X56/L390, X60/L415, X65/L450, X70/L485, X80/L555	9 - 32*	1500 - 3200	5800 - 12200	12.3 max
Structural steel plates for offshore structures		API Specification 2H	42, 50			
Quenched and tempered steel plates for offshore structures	API Specification 2Y	50, 60	8 - 50		6000 - 12200	

* For thickness over 22 mm producer's approval is required.
Dimensions, technical requirements and weight of flat products should be agreed during the conclusion of contracts.
For plates with thickness 135-200 mm mechanical properties should be agreed during the conclusion of contract.

Metinvest production in Ukraine

Ukrainian and CIS standards

Product	Standard	Steel grade	Thickness, mm	Width, mm	Length, mm	Weight, t	
Plates for welded pipes production	GOST 20295	K52, K55	10 - 22	1500 - 3200	6000 - 12200	12.3 max	
	TU 14-1-1921-76	12G2S	8 - 11	1500 - 3300			
		17GS, 17G1S	8 - 11				
	TU 14-1-1950-2004	17G1SU	8 - 17,5				
		6G2SAF	8.5 - 10.5				
	TU 14-1-3636-96	13GS, 13GS-U, 13G1S-U, 13G1SB-U	8 - 22		11500 - 11800		
	TU 14-1-3978-96	09G2FB	9.5 - 22		11500 - 11900		
	TU 14-1-4034-96	10G2FB	8 - 22		11500 - 11800		
	TU 14-1-4083-86	13GS, 13GS-U, 13G1S-U, 09G2FB, 10G2FB, 10G2FBU, 10G2T, 10G2BT, 09G2BT, 10G2BU	8 - 50		6000 - 11800		
					11500 - 11800		
	TU 14-1-4627-96	10G2FBU	8 - 32		11500 - 11900		
	TU 14-1-5293-95	10G2FB	8 - 22		6000 - 11800		
	TU 14-1-5339-96	10G2FBU	16 - 60		1600 - 3200		5900 - 11800
	TU 14-1-5346-97	13GS, 13G1S-U	8 - 12		1500 - 2500		11500 - 12200
	TU 14-1-5351-97	X70 (K60)	9 - 30*		2000 - 3300		11300 - 11600
	TU 14-1-5364-98	X65, X70	10 - 22		1500 - 3300		6000 - 12200
	TU 14-1-5443-2002	08G1B	8 - 22		1550 - 2530		11500 - 12000
	TU 14-1-5477-2004	13G1S-U	10 - 20		1500 - 3300		
17G1S-U		8 - 16					
TU 14-1-5514-2005	07GBF-U	14 - 32	1500 - 3300	18800 - 24300			
TU 14-1-5515-2005	05G2BU	20	2500 - 2650	11550 - 11650			
TU 14-1-5523-2005	X46, X52, X56, X60, K52	10 - 30*	1500 - 3300	6000 - 12000			
TU 14-1-5527-2006	06G1NMFBD	15 - 40	1520 - 3300	11500 - 12200			
TU 14-1-5540-2006	07GBF-U, 08GBF-U	12 - 32					

* For thickness over 22 mm producer's approval is required.
 Dimensions, technical requirements and weight of flat products should be agreed during the conclusion of contracts.
 For plates with thickness 135-200 mm mechanical properties should be agreed during the conclusion of contract.

Metinvest production in Europe

European standards

Product	Standard	Steel grade	Thickness, mm	Width, mm	Length, mm	Weight, t
Weldable structural steels for fixed offshore structures	EN 10225	S355G2+N	5 - 20	1500 - 3150	4000-25000	10 max
		S355G3+N	5 - 40			14 max

Dimensions, technical requirements and weight of flat products should be agreed during the conclusion of contracts.

American standards

Product	Standard	Steel grade	Thickness, mm	Width, mm	Length, mm	Weight, t
Structural steel plates for offshore structures	API Specification 2H	42, 50	5 - 80	1500 - 3150	4000 - 25000	16 max
High-strength low-alloy steel for fittings	ASTM A860	WPHY 42, WPHY 46, WPHY 52	4 - 100			20 max
		WPHY 60	8 - 60			14 max
		WPHY 65	8 - 50			
	MSS SP75	WPHY 42, WPHY 46, WPHY 52	4 - 100			20 max
		WPHY 60	8 - 60			14 max
		WPHY 65	8 - 50			
Plates for welded pipes production	Technical requirements for the supply of plates ANSI/API 5L	B/L245NB, X42/L290NB, X46, X52/L360NB	4 - 100			20 max
		X60/L415QB	8 - 60			14 max
		X65/L450QB	8 - 50			
		X70/L485QB	8 - 50			

Dimensions, technical requirements and weight of flat products should be agreed during the conclusion of contracts.

Metinvest production in Ukraine

American standards

Product	Standard	Steel grade	Thickness, mm	Width, mm	Length, mm	Weight, t
Shipbuilding plates	ASTM A131/A131M	A, B, D, E, AH32, DH32, EH32, E32, AH36, DH36, EH36, E36, AH40, DH40, EH40, E40	6 - 50	1500 - 3200	6000 - 12500	12.3 max

Dimensions, technical requirements and weight of flat products should be agreed during the conclusion of contracts.

Ukrainian and CIS standards

Product	Standard	Steel grade	Thickness, mm	Width, mm	Length, mm	Weight, t
Shipbuilding plates	GOST 5521	A, B, D, E, A27S, D27S, E27S, A32, D32, E32, A36, D36, E36, A40, D40, E40, A40S, D40S, E40S	6 - 50	1500 - 3200	6000 - 12500	12.3 max
	GOST R 52927	A, B, D, E, A32, D32, E32, A36, D36, E36, A40, D40, E40, A40S, D40S, E40S		1500 - 3200		

Dimensions, technical requirements and weight of flat products should be agreed during the conclusion of contracts.

Metinvest production in Ukraine

Shipping Registers

Grade	Thickness, mm	RINA Italy	LR United Kingdom	GL Germany	DNV Norway	DNV-GL Germany	BV France
A, B	6 - ≤20	AR, NR	AR, NR, TMCP	AR, CR	AR, NR	AR, NR, CR	AR, NR, TMCP
	≥20 - ≤25		NR, TMCP				
	≥25 - ≤40						
	≥40 - ≤50						
	≥50 - ≤90	N	N	N	-	N	N
	≥90 - 100						
A32, AH32	6 - ≤20	NR, N, TMCP, QT	AR, NR, TMCP	CR, TMCP	NR, TMCP	CR, NR, TMCP	NR, TMCP
	≥20 - ≤25		NR, TMCP				
	≥25 - ≤40	N, TMCP, QT	N, TMCP				
	≥40 - ≤50						
	≥50 - ≤100	N	-	N	-	N	-
A36, AH36	6 - ≤20	NR, N, TMCP, QT	AR, NR, TMCP	CR, TMCP	NR, TMCP	CR, NR, TMCP, QT	NR, TMCP
	≥20 - ≤25		NR, TMCP				
	≥25 - ≤40	N, TMCP, QT	N, TMCP				
	≥40 - ≤50						
	≥50 - ≤100	N	-	N	-	N	-
D	6 - ≤20	AR, NR	AR, NR, TMCP	CR	NR, N	CR, NR	NR, TMCP
	≥20 - ≤25		NR, TMCP				
	≥25 - ≤40	AR, NR, N	CR, N			CR/NR, N	NR, TMCP, N
	≥40 - ≤50					CR/NR	
	≥50 - ≤90	N	-	-	-	-	N
D32, DH32	6 - ≤20	NR, TMCP, QT	AR, NR, TMCP	CR, TMCP	NR, TMCP	CR, NR, TMCP	NR, TMCP
	≥20 - ≤25		NR, TMCP				
	≥25 - ≤40	N, TMCP, QT	N, TMCP				
	≥40 - ≤50						
D36, DH36	6 - ≤20	NR, N, TMCP, QT	AR, NR, TMCP	CR, TMCP	NR, TMCP	CR, NR, TMCP, QT	NR, TMCP
	≥20 - ≤25		NR, TMCP				
	≥25 - ≤40	N, TMCP, QT	N, TMCP				
	≥40 - ≤50						
	≥50 - ≤62	-	-	N	-	N	-
E	6 - ≤20	N, TMCP	N, TMCP	N, TMCP	TMCP	TMCP, N	N, TMCP
	≥20 - ≤25						
	≥25 - ≤40						
	≥40 - ≤50						
	≥50 - ≤90	N	-	-	-	-	N
E32, EH32	6 - ≤20	N, TMCP, QT	N, TMCP	N, TMCP	N, TMCP	N	N, TMCP
	≥20 - ≤25						
	≥25 - ≤40						
	≥40 - ≤50						
E36, EH36	6 - ≤20	N, TMCP, QT	N, TMCP	N, TMCP	N, TMCP	N, QT, TMCP	N, TMCP
	≥20 - ≤25						
	≥25 - ≤40						
	≥40 - ≤50						
	≥50 - ≤62	-	-	N	-	N	-
A40, D40, E40, AH40, EH40, DH40	6 - ≤42	TMCP	QT	-	TMCP, QT	QT	
	≥42 - ≤50				TMCP	-	
F40	6 - ≤42	-	-	-	QT	QT	-

Dimensions, technical requirements and weight of flat products should be agreed during the conclusion of contracts. Symbols for delivery condition indication: AR - as rolled; CR - controlled rolling; NR - normalized rolling; N - normalization; QT - quenching and tempering; TMCP - termomechanical rolling.

Metinvest production in Ukraine

Shipping Registers

Grade	Thickness, mm	ABS US	PMPC Russia	PPPC Russia	PCY Ukraine	ClassNK Japan	IRClass India
A, B	6 - ≤20	AR, CR, TMCP	AR, CR, NR, TMCP	CR, NR	AR, CR, NR	AR	AR, CR, TMCP
	≥20 - ≤25				AR, CR, NR, N		AR, CR
	≥25 - ≤40						
	≥40 - ≤50						
	≥50 - ≤90	-	-	-	-	-	-
	≥90 - 100						
A32, AH32	6 - ≤20	CR, TMCP	CR, TMCP	TMCP	CR, TMCP	CR	N, TMCP
	≥20 - ≤25				N, TMCP		
	≥25 - ≤40	N, TMCP					
	≥40 - ≤50						
	≥50 - ≤100	-	-	-	-	-	-
A36, AH36	6 - ≤20	CR, NR, TMCP	CR, TMCP	TMCP	CR, TMCP	CR	N, TMCP
	≥20 - ≤25				N, TMCP		
	≥25 - ≤40	N, TMCP					
	≥40 - ≤50						
	≥50 - ≤100	-	-	-	-	-	-
D	6 - ≤20	CR, TMCP	AR (max. 35 mm), CR, NR, TMCP	CR, NR	CR, NR	CR	CR, TMCP, N
	≥20 - ≤25				CR, NR, N		
	≥25 - ≤40	CR, TMCP	CR, NR, TMCP				
	≥40 - ≤50	CR, TMCP	CR, NR, TMCP				
	≥50 - ≤90	-	-	-	-	-	-
D32, DH32	6 - ≤20	CR, TMCP	CR, TMCP	TMCP	CR, TMCP	CR	N, TMCP
	≥20 - ≤25				N, TMCP		
	≥25 - ≤40	N, TMCP					
	≥40 - ≤50						
D36, DH36	6 - ≤20	CR, TMCP	CR, TMCP	TMCP	CR, TMCP	CR	N, TMCP
	≥20 - ≤25				N, TMCP		
	≥25 - ≤40	N, TMCP					
	≥40 - ≤50						
	≥50 - ≤62	-	-	-	-	-	-
E	6 - ≤20	N, TMCP	N, TMCP	TMCP	N, TMCP	N	TMCP (max. 30 mm)
	≥20 - ≤25						
	≥25 - ≤40						
	≥40 - ≤50						
	≥50 - ≤90	-	-	-	-	-	-
E32, EH32	6 - ≤20	N, TMCP	N, TMCP	TMCP	N, TMCP	N	N, TMCP
	≥20 - ≤25						
	≥25 - ≤40						
	≥40 - ≤50						
E36, EH36	6 - ≤20	N, TMCP	N, TMCP	TMCP	N, TMCP	N	N, TMCP
	≥20 - ≤25						
	≥25 - ≤40						
	≥40 - ≤50						
	≥50 - ≤62	-	-	-	-	-	-
A40, D40, E40, AH40, EH40, DH40	6 - ≤42	-	-	-	-	-	-
	≥42 - ≤50						
F40	6 - ≤42	-	-	-	-	-	-

Dimensions, technical requirements and weight of flat products should be agreed during the conclusion of contracts. Symbols for delivery condition indication: AR - as rolled; CR - controlled rolling; NR - normalized rolling; N - normalization; QT - quenching and tempering; TMCP - termomechanical rolling.

Metinvest production in Europe

American standards

Product	Standard	Steel grade	Thickness, mm	Width, mm	Length, mm	Weight, t
Shipbuilding plates	ASTM A131/A131M	A, B, D, E, AH32, DH32, EH32, FH32, AH36, DH36, EH36, FH36	4-100	1500-3150	4000-25000	14 max

Dimensions, technical requirements and weight of flat products should be agreed during the conclusion of contracts. Z test available on request (for thickness min. 25 mm).

Shipping Registers

Grade	Thickness, mm	RINA Italy	LR United Kingdom	DNV Norway	BV France	ABS US
A, AH32, A32, AH36, A36	4 - <8	AR, N	AR, N	AR, N	AR, N	AR, N
	≥8 - ≤35	AR, CR, N	AR, N	AR, N, CR	AR, CR, N	AR, CR, N
	>35 - ≤40	CR, N	N	N, CR	CR, N	CR, N
	>40 - ≤50	N		N	N	N
	>50 - 60	N		N	N	N*
AH27S, A27S	4 - ≤25	-	AR, N	AR, N	-	-
	>25 - 60	-	N	N	-	-
B	4 - ≤8	AR, N	N	AR, N, CR	AR, N	AR, N
	≥8 - ≤35	AR, CR, N		AR, N, CR	AR, CR, N	AR, CR, N
	>35 - ≤40	CR, N		N, CR	CR, N	CR, N
	>40 - ≤50	N		N	N	N
	>50 - 60	N		N	N	-
D, DH32, D32, DH36, D36	4 - ≤8	N	N	N	N	N
	≥8 - ≤35	CR, N		N, CR	CR, N	CR, N
	>35 - ≤40	CR, N		N, CR	CR, N	CR, N
	>40 - ≤50	N		N	N	N
	>50 - 60	N		N	N	N**
DH27S, D27S	4-60	-	N	N	-	-
E	4 - ≤50	N	N	N	N	N
	>50 - 60	-	N	N	-	-
EH32, EH36	4 - ≤50	N	N	N	N	N
	>50 - 60	-	N	N	-	N
EH27S, E27S	4-60	-	N	-	-	-
FH32, FH36	5-35	N	-	-	-	-
510LF	8-35	N	-	-	-	-

*not applicable for grade A
**not applicable for grade D

Dimensions, technical requirements and weight of flat products should be agreed during the conclusion of contracts. Z test available on request (for thickness min. 25mm).

Symbols for delivery condition indication: AR - as rolled; CR - controlled rolling; N - normalization

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