

CERTIFICATO DI CONTROLLO 3.1 / INSPECTION CERTIFICATE 3.1 - EN 10204:2004

METINVEST
METINVEST TRAMETAL SPA

Società per azioni con socio unico soggetta a direzione e coordinamento di Metinvest B.V
Registered office: Via XII Ottobre, 3 - 16121 Genova, Italy
Phone +39 010 5762911 - Fax +39 010 5762990
Works: Via E. Fermi, 44 - 33058 San Giorgio di Nogaro UD, Italy
Phone +39 0431 629989 - Fax +39 0431 629985
Cap. Soc. Euro 300.120.000,00 i.v.
C.F., P.IVA e Iscr. Reg. Imp. GE 05956630965 - REA 437720/GE
http://trametal.metinvestholding.com

N° Certificato / Certificate no. 407756 **Data / Date** 09/06/2017

N° Ordine Trametal / Works order 31788038 **N° Ordine cliente / Customer's order** 1101100485

DDT del / date
BCT 31700190 08/06/2017

Pratica / File no. del / date

Prodotto / Product Lamiere / Hot rolled plates
Qualità / Steel grade A36
Normativa / Specification ASTM

(A) PROCESSO DI ELABORAZIONE / STEELMAKING PROCESS: E = ELECTRIC ; BO = BASIC OXYGEN
(B) STATO DI FORNITURA / DELIVERY CONDITION: AR = GREZZO DI LAMINAZIONE / AS ROLLED ;
N* = LAMINAZIONE A TEMPERATURA CONTROLLATA / NORMALIZING ROLLING ;
N = NORMALIZZATO / NORMALIZED at 910°C, 1,5 min/mm ; ARIA CALMA / STILL AIR ;
R = RICOTTO / ANNEALED ;
N+R = NORMALIZZATO + RINVENUTO / NORMALIZED + ANNEALED
(C) TRATTAMENTO TERMICO DEL CAMPIONE / HEAT TREATMENT OF SAMPLE:
N = 910°C, 1,5 min/mm ; ARIA CALMA / STILL AIR
R = 650°C, 1,5 min/mm ; ARIA CALMA / STILL AIR
(D) $C_{eq.1} = C + Mn/6$; $C_{eq.2} = C + Mn/6 + (Cr + Mo + V)/5 + (Ni + Cu)/15$;
 $P_{cm} = C + Si/30 + (Mn + Cu + Cr)/20 + Ni/60 + Mo/15 + V/10 + B*5$
(1) POSIZIONE / LOCATION: 1 = TESTA / TOP ; 2 = PIEDE / BOTTOM
(2) POSIZIONE / LOCATION: C = CUORE / 1/2 THICKNESS ; P = PELLE / SURFACE ; D = 1/4 SPESSORE / THICKNESS
(3) DIREZIONE / DIRECTION: L = LONGITUDINALE / LONGITUDINAL ; T = TRASVERSALE / TRANSVERSE
(4) FORMA DEL PROVINO / SHAPE OF TEST PIECE: P = PRISMATICO / PRISMATIC ; C = CILINDRICO / CYLINDRICAL
(5) ESITO PROVA DI PIEGA / RESULT: OK = COMPLYING ; NO = NOT COMPLYING

Cliente / Customer

METINVEST INTERNATIONAL S.A.

2 RUE VALLIN
01201 GENEVA - SWITZERLAND 01201 CH

SVIZZERA

Marchatura di prodotto / Marking of the product
LAMIERA/ORDINE/N° INFORNAMENTO/DIMENSIONI/QUALITÀ/MARCHIO DEL PRODUTTORE
PLATE/ORDER/INTERNAL N°/DIMENSIONS/STEEL GRADE/MANUFACTURER'S MARK

B07	B07	B07	B09/B11	B12	B07	C70	B04	C00	B05	C00	B05 PWHT	C00	B05 Q+T	RAFFREDDAMENTO					
ITEM	LAMIERA PLATE	N° INFORN. INTERNAL NUMBER	DIMENSIONI [mm]	MASSA TEORICA [t]	LOTTO BATCH NO.	PROCESSO ELAB. (A) STEELMAKING PROCESS	STATO FORNITURA LAMIERA (B)	CAMPIONE SAMPLE	TRATT. CAMPIONE (C) HEAT TREATMENT	CAMPIONE PWHT SAMPLE	TEMPERATURA INIZIO °C BEGINNING TEMPERATURE	TEMPERATURA FINE °C END TEMPERATURE	TEMPERATURA (Q) °C	PERMANENZA (T) Min	TEMPERATURA (T) °C	RAFFREDDAMENTO COOLING	PERMANENZA (Q) Min	TEMPERATURA (Q) °C	RAFFREDDAMENTO COOLING
1	1SX6380205A	1362027	9.53X1829X6096	0,83	526317	BO	AR	[AC536]											
1	1SX6380205B	1362027	9.53X1829X6096	0,83	526317	BO	AR	[AC536]											
1	1SX6380205C	1362027	9.53X1829X6096	0,83	526317	BO	AR	[AC536]											
1	1SX6380205D	1362027	9.53X1829X6096	0,83	526317	BO	AR	[AC536]											
1	1SX6380205E	1362027	9.53X1829X6096	0,83	526317	BO	AR	[AC536]											
1	1SX6380206A	1362034	9.53X1829X6096	0,83	526317	BO	AR	[AC536]											
1	1SX6380206B	1362034	9.53X1829X6096	0,83	526317	BO	AR	[AC536]											
1	1SX6380206C	1362034	9.53X1829X6096	0,83	526317	BO	AR	[AC536]											
1	1SX6380206D	1362034	9.53X1829X6096	0,83	526317	BO	AR	[AC536]											
1	1SX6380206E	1362034	9.53X1829X6096	0,83	526317	BO	AR	[AC536]											
1	1SX6390106A	1362043	9.53X1829X6096	0,83	526323	BO	AR	[AC541]											
1	1SX6390106B	1362043	9.53X1829X6096	0,83	526323	BO	AR	[AC541]											
1	1SX6390106C	1362043	9.53X1829X6096	0,83	526323	BO	AR	[AC541]											
1	1SX6390106D	1362043	9.53X1829X6096	0,83	526323	BO	AR	[AC541]											
1	1SX6420101A	1362041	9.53X1829X6096	0,83	526320	BO	AR	AC538											
1	1SX6420101B	1362041	9.53X1829X6096	0,83	526320	BO	AR	AC538											
1	1SX6420101C	1362041	9.53X1829X6096	0,83	526320	BO	AR	AC538											
1	1SX6420101D	1362041	9.53X1829X6096	0,83	526320	BO	AR	AC538											
1	1SX6420101E	1362041	9.53X1829X6096	0,83	526320	BO	AR	AC538											
1	1SX6420102A	1362038	9.53X1829X6096	0,83	526320	BO	AR	[AC538]											
1	1SX6420102B	1362038	9.53X1829X6096	0,83	526320	BO	AR	[AC538]											
1	1SX6420102C	1362038	9.53X1829X6096	0,83	526320	BO	AR	[AC538]											
1	1SX6420102D	1362038	9.53X1829X6096	0,83	526320	BO	AR	[AC538]											
1	1SX6420102E	1362038	9.53X1829X6096	0,83	526320	BO	AR	[AC538]											

Z06		
Z07	Z03 ENTE COLLAUDO / INSPECTION BODY	Z02
PRODUCED FROM CONTINUOUS CAST SLAB AND HAVE A MINIMUM REDUCTION RATIO OF 3 TO 1. ACC. TO ASTM ED. 2013. FULLY KILLED, FINE GRAIN STEEL. Value of Mn maximum in derogation permitted up to 1.50%	TIMBRO DELL'ISPETTORE STAMP OF THE INSPECTION REPRESENTATIVE	METINVEST TRAMETAL S.p.a. F. Andrian CQ Manager 