ArcelorMittal
Factoria de Gijón

ArcelorMittal España, S.A.
Residencia la Granda
33418 - Gozón
Asturias - España
A01

AENOR
GESTIÓN DE LA CALIDAD
ISO 9001
ER-0030/1992

**CHAPA**
PLATE
BLECHE
TOLES
LAMIERE
B01

# CERTIFICADO DE INSPECCION / INSPECTION CERTIFICATE

CERTIFICADO DE INSPECCION 3.1 S/ EN 10204 / EN 10168
INSPECTION CERTIFICATE 3.1 ACCORDING TO EN 10204 / EN 10168
A02

ORDEN SUMINISTRO / Works order: BN0856 / GB23FE001W — A08

N. CERTIFICADO / N. Certificate: GI528049-02 — HOJA 01 de 02 / Page of: — A03

**CLIENTE** / Customer
FEON OY
TEOLLISUUSKATU 33
00510 - HELSINKI
FINLANDIA
A06

FECHA / Date: 2022-09-07 — Z02

PEDIDO CLIENTE Customer's order: 43097 — A07

SOCIEDAD INSPECTORA / Classification Society: ARCELOR — A05

Las chapas amparadas por este certificado cumplen con los requisitos de la especificación y de la orden de suministro — Z01

PROCEDIMIENTO DE ELABORACION / Melting Process: B.O.S. CONTINUOUSLY CAST SLAB — C70

We certify hereby that the plates mentioned in this certificate comply with the specification and order requirements — Z01

**ESPECIFICACION** / Specification — B02 B03
S355K2+N
EN 10025-PART 2:2019
HOT DIP ZINC COATING CAT B

UK CA 0086
QP00020_UKCA_FC_V001_EN
EN 10025-2:2019
S355K2+N/1.0596

B06
N. DE CHAPA (PLATE N.) / MARCA FABRICANTE (TRADEMARK): ENS
N. COLADA (HEAT N.)
CALIDAD (QUALITY GRADE)

| POSICION (item) A10 | DIMENSIONES (Dimensions) mm: ESPESOR (Thickness) B09 | ANCHO (Width) B10 | LARGO (Length) B11 | PESO (Weight) Kg B12 | N.PIEZAS (Number of pieces) B08 | COLADA (Heat) B07 | NUMERO DE LA MUESTRA (Sample no.) C00 | C C71 | Mn C72 | Si C73 | S C74 | P C75 | Al C76 | N C77 | CU C78 | NI C79 | CR C80 | MO C81 | NB C82 | V C83 | TI C84 | B C85 | C86 | C87 | C88 | C89 | CQ01 C90 | T.Grano (Grain size) C60 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 004 | 25,00 | 2000 | 6000 | 9420 | 4 | 203043 | | ,15 | 1,42 | ,191 | ,011 | ,022 | ,029 | ,0039 | ,023 | 0,018 | 0,033 | ,003 | ,011 | ,001 | ,001 | ,0002 | | | | | 0,39 | |
| | | | | 18840 | 8 | 293468 | | ,15 | 1,46 | ,197 | ,013 | ,016 | ,030 | ,0041 | ,028 | 0,018 | 0,030 | ,001 | ,011 | ,001 | ,001 | ,0002 | | | | | 0,40 | |
| | | | | 21195 | 9 | 293603 | | ,14 | 1,40 | ,214 | ,005 | ,016 | ,036 | ,0066 | ,038 | 0,017 | 0,034 | ,002 | ,012 | ,002 | ,001 | ,0003 | | | | | 0,39 | |
| | TOTAL : | | | 49455 | 21 | | | | | | | | | | | | | | | | | | | | | | | |

http://dop.arcelormittal.net/pdf/QP00020_UKCA_FC_V001_EN_FI.pdf
http://dop.arcelormittal.net/pdf/QP00020_CPR2013-07-01_FC_V013_FI_FI.pdf

CQ01: C+MN/6+(CR+MO+V)/5+(NI+CU)/15
TH TOL ACCORDING TO EN 10029 CLASS B
SURFACE QUALITY ACC. EN10163-2 CLASS B SUBCLASS 3
FLATNESS TOLERANCE: EN 10029 (2010) CLASS N

CE
0099
ArcelorMittal Commercial Spain S.L.,
Carretera de Toledo, N 402 Km 9,2
28021 Villaverde (Madrid) Spain
07

QP00020_CPR2013-07-01_FC_V013
EN 10025-PART 2:2019
S355K2+N

Uso previsto: estructuras soldadas, atornilladas o remachadas (Intented to be used in welded, bolted and riveted structure

Límite elsático (Yield strength)*
Resistencia a tracción (Tensile strength)*
Alargamiento (Elongation)*
Resis. flexión choque (Impact strength)*
Soldabilidad (Weldability)*
Durabilidad (Durability)*

* Expresado como se indica en el DoP (Expressed as indicated in the DoP)

Por la Sociedad Inspectora
(for the classification society)
Z02-Z03

Por
(For)
ArcelorMittal
Juan Manuel Vigil Fernández
Jefe de Calidad Chapa Gruesa
Heavy Plate Quality Manager
Flat Carbon Europe
Z02-Z03


ArcelorMittal España, S.A - Registro Mercantil de Asturias, Tomo 2279, Folio 115, Hoja AS-17946 - N.I.F. A81046856 - Oficina de certificados: certificados.gijon@arcelormittal.com- Tlf + 34 985187776

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**Factoria de Gijón**

ArcelorMittal España, S.A.
Residencia la Granda
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A01

AENOR
GESTIÓN DE LA CALIDAD
ISO 9001
ER-0030/1992

**CHAPA**
PLATE
BLECHE
TOLES
LAMIERE
B01

# CERTIFICADO DE INSPECCION / INSPECTION CERTIFICATE

CERTIFICADO DE INSPECCION 3.1 S/ EN 10204 / EN 10168
INSPECTION CERTIFICATE 3.1 ACCORDING TO EN 10204 / EN 10168 A02

ORDEN SUMINISTRO / Works order: BN0856 GB23FE001W A08

N. CERTIFICADO / N. Certificate: GI528049-02 A03

HOJA 02 de 02 Page of:

**CLIENTE** / Customer
FEON OY
TEOLLISUUSKATU 33
00510 - HELSINKI
FINLANDIA
A06

PEDIDO CLIENTE Customer's order: 43097 A07

FECHA / Date: 2022-09-07 Z02

SOCIEDAD INSPECTORA / Classification Society: ARCELOR A05

(1) C = Cabeza (top) P = Pie (bottom) S = Piel (skin) 4 = 1/4 espesor (thickness) 3 = 1/3 espesor (thickness) E = Espesor completo (full thickn.) N = Nucleo (midthickness)
(2) L = Longitudinal T = Transversal Z = Through thickness D = Diagonal
(3) C = Cilindrica (cylindrical) P = Prismática (prismatic)
(4) RESILIENCIA (Impact test) J = Julios (joules) K = Julios/cm2 E = Lateral exp. in mm F = Shear Area % * Values over 240 J exceed 80% of the test equipment capacity
(5) = Bruto Laminación (as rolled) A = N + R L = Conformado de Normalizaciÿn (normalizing rolling) T = Tratamiento Termomec. (termomec.forming) N = Normalizado (normalized) 920 ± 10°C. 1,5 min/mm
(6) Z = Estricción (Reduction of area) %

**ESPECIFICACION** / Specification B02 B03: S355K2+N EN 10025-PART 2:2019 HOT DIP ZINC COATING CAT B

| POSICION (Item) A10 | COLADA (Heat) B07 | IDENTIFICACION DE LA CHAPA (Plate no.) B07 | ESTADO SUMINISTRO (As delivered cond.) (5) B04 | ULTRASONIDOS (UST Test) D02 | IDENTIFICACION DE LA MUESTRA (Sample no.) C00 | ESPESOR DE LA MUESTRA (Thickness of sample) mm C04 | Trat. Térmico Probeta (PWHT of Test Samples) B05 | **ENSAYO DE TRACCION** (Tensile test) LOCALIZACION (Location) (1) C01 | ORIENTACION (Orientat.) (2) C02 | TEMP. ENSA. (Test temp.C) °C C03 | FORMA PROBETA (Shape of Specimen) (3) C10 | Re C11 SUPERIOR (Y.P) MPA (N/MM2) | Re C11 0,2 % (Y.S.) MPA (N/MM2) | Re C11 0,5 % (Y.S.) MPA (N/MM2) | Rm. (T.S.) MPA (N/MM2) C12 | C16 | ALARGAMIENTO (Elongation) 5/5.65 % C13 | ALARGAMIENTO (Elongation) C2" P8" % C14 | ESTRICCION (Reduction of Area) % C15 | **DOBLADO** (Bend test) LOCALIZACION (Location) (1) C01 | ORIENTACION (Orientation) (2) C02 | MANDRIL (Mandrel) r = nE n C51 | ANGULO (Angle) C52 | B = BIEN (OK) C50 | **RESILIENCIA** (Impact test) **DUREZA** (Hardness test) **OTROS ENSAYOS** (Other tests) ORIENTACION (Orientation) (2) C02 | LOCALIZACION (Location) (1) C01 | UNIDADES (Units) (6) (4) C33 C44 | TEMP. ENSAYO (Test temp.C) °C C03 | INDIVIDUALES (Single values) C42 C31 1 | 2 | 3 | MEDIA (Average) C43 C32 | TIPO DE ENSAYO (Type of test) C30 C40 C41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 004 | 203043 | 44760271 | L | | 0702063 | 20,00 | | PE | T | | P | 387 | | | 535 | | 28,3 | | | | | | | | | L | PS | J | -20 | 077 | 112 | 123 | 104 | ISO-V 10 |
| | | 44760272 | L | | 0702063 | 20,00 | | PE | T | | P | 387 | | | 535 | | 28,3 | | | | | | | | | L | PS | J | -20 | 077 | 112 | 123 | 104 | ISO-V 10 |
| | | 44760273 | L | | 0702063 | 20,00 | | PE | T | | P | 387 | | | 535 | | 28,3 | | | | | | | | | L | PS | J | -20 | 077 | 112 | 123 | 104 | ISO-V 10 |
| | | 44760274 | L | | 0702063 | 20,00 | | PE | T | | P | 387 | | | 535 | | 28,3 | | | | | | | | | L | PS | J | -20 | 077 | 112 | 123 | 104 | ISO-V 10 |
| | 293468 | 44775391 | L | | 0724001 | 25,00 | | PE | T | | P | 380 | | | 519 | | 30,7 | | | | | | | | | L | PS | J | -20 | 077 | 121 | 111 | 103 | ISO-V 10 |
| | | 44775392 | L | | 0724001 | 25,00 | | PE | T | | P | 380 | | | 519 | | 30,7 | | | | | | | | | L | PS | J | -20 | 077 | 121 | 111 | 103 | ISO-V 10 |
| | | 44775393 | L | | 0724001 | 25,00 | | PE | T | | P | 380 | | | 519 | | 30,7 | | | | | | | | | L | PS | J | -20 | 077 | 121 | 111 | 103 | ISO-V 10 |
| | | 44775401 | L | | 0720035 | 20,00 | | PE | T | | P | 397 | | | 523 | | 32,7 | | | | | | | | | | | | | | | | | |
| | | | | | 0724002 | 25,00 | | | | | | | | | | | | | | | | | | | | L | PS | J | -20 | 139 | 125 | 125 | 130 | ISO-V 10 |
| | | 44775402 | L | | 0720035 | 20,00 | | PE | T | | P | 397 | | | 523 | | 32,7 | | | | | | | | | | | | | | | | | |
| | | | | | 0724002 | 25,00 | | | | | | | | | | | | | | | | | | | | L | PS | J | -20 | 139 | 125 | 125 | 130 | ISO-V 10 |
| | | 44775403 | L | | 0720035 | 20,00 | | PE | T | | P | 397 | | | 523 | | 32,7 | | | | | | | | | | | | | | | | | |
| | | | | | 0724002 | 25,00 | | | | | | | | | | | | | | | | | | | | L | PS | J | -20 | 139 | 125 | 125 | 130 | ISO-V 10 |
| | 293603 | 44775521 | L | | 0724006 | 25,00 | | PE | T | | P | 394 | | | 514 | | 29,6 | | | | | | | | | L | PS | J | -20 | 234 | 204 | 194 | 211 | ISO-V 10 |
| | | 44775522 | L | | 0724006 | 25,00 | | PE | T | | P | 394 | | | 514 | | 29,6 | | | | | | | | | L | PS | J | -20 | 234 | 204 | 194 | 211 | ISO-V 10 |
| | | 44775523 | L | | 0724006 | 25,00 | | PE | T | | P | 394 | | | 514 | | 29,6 | | | | | | | | | L | PS | J | -20 | 234 | 204 | 194 | 211 | ISO-V 10 |
| | | 44775871 | L | | 0724011 | 25,00 | | PE | T | | P | 424 | | | 527 | | 29,6 | | | | | | | | | L | PS | J | -20 | 225 | 189 | 224 | 213 | ISO-V 10 |
| | | 44775872 | L | | 0724011 | 25,00 | | PE | T | | P | 424 | | | 527 | | 29,6 | | | | | | | | | L | PS | J | -20 | 225 | 189 | 224 | 213 | ISO-V 10 |
| | | 44775873 | L | | 0724011 | 25,00 | | PE | T | | P | 424 | | | 527 | | 29,6 | | | | | | | | | L | PS | J | -20 | 225 | 189 | 224 | 213 | ISO-V 10 |
| | | 44775881 | L | | 0724012 | 25,00 | | PE | T | | P | 434 | | | 531 | | 30,2 | | | | | | | | | L | PS | J | -20 | 260 | 199 | 250 | 236 | ISO-V 10 |
| | | 44775882 | L | | 0724012 | 25,00 | | PE | T | | P | 434 | | | 531 | | 30,2 | | | | | | | | | L | PS | J | -20 | 260 | 199 | 250 | 236 | ISO-V 10 |
| | | 44775883 | L | | 0724012 | 25,00 | | PE | T | | P | 434 | | | 531 | | 30,2 | | | | | | | | | L | PS | J | -20 | 260 | 199 | 250 | 236 | ISO-V 10 |
| | 293468 | 88372241 | L | | 0724002 | 25,00 | | PE | T | | P | 405 | | | 533 | | 30,2 | | | | | | | | | L | PS | J | -20 | 139 | 125 | 125 | 130 | ISO-V 10 |
| | | 88372242 | L | | 0724002 | 25,00 | | PE | T | | P | 405 | | | 533 | | 30,2 | | | | | | | | | L | PS | J | -20 | 139 | 125 | 125 | 130 | ISO-V 10 |

Por la Sociedad Inspectora
(For the Classification Society)
Z02-Z03

Por (For)
Juan Manuel Vigil Fernández
Jefe de Calidad Chapa Gruesa
Heavy Plate Quality Manager
Flat Carbon Europe
ArcelorMittal
Z02-Z03


ArcelorMittal España, S.A - Registro Mercantil de Asturias, Tomo 2279, Folio 115, Hoja AS-17946 - N.I.F. A81046856 - Oficina de certificados: certificados.gijon@arcelormittal.com- Tlf + 34 985187776