



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

A01



UNE-EN ISO 9001
ER-0030/1992
CHAPA
PLATE
BLECHE
TOLES
LAMIÈRE

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

ORDEN SUMINISTRO /
Works order
BK5209
GB13FE001W

A02

N. CERTIFICADO /
N. Certificate
GI475057-02
HOJA 01 de 06
Page of:

A03

CLIENTE / Customer

FEON OY
TEOLLISUUSKATU 33
00510 - HELSINKI
FINLANDIA

A06

FECHA / Date 2021-09-24

Z02

PEDIDO CLIENTE Customer's order

1114984

A07

SOCIEDAD INSPECTORA /
Classification Society

ARCELOR

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

S355K2+N
EN 10025-PART 2:2019
HOT DIP ZINC COATING CLASS 3

B02
B03

N. DE CHAPA (PLATE N.) / MARCA FABRICANTE (TRADEMARK) ENS

N. COLADA (HEAT N.)
CALIDAD (QUALITY GRADE)

B06

| POSICION (Item) | DIMENSIONES (Dimensions) mm | | | PESO (Weight) Kg | N. PIEZAS (Number of pieces) | COLADA (Heat) | NUMERO DE LA MUESTRA (Sample no.) | COMPOSICION QUIMICA (Chemical composition) | | | | | | | | | | | | | | | | | CQ01 C90 | T.Grano (Grain size) C60 | | |
|--------------------|-----------------------------------|-------------------------|--------------------------|------------------------|------------------------------------|----------------------------|---|--|------|------|------|------|------|-------|------|-------|-------|------|------|------|------|-------|-----|-----|-------------|-----------------------------------|------|-----|
| | ESPESOR Thickness) B09 | ANCHO (Width) B10 | LARGO (Length) B11 | | | | | C | Mn | Si | S | P | Al | N | CU | NI | CR | MO | NB | V | TI | B | C86 | C87 | | | C88 | C89 |
| A10 | 8,00 | 2000 | 6000 | 46748 7540 21112 | 62 10 28 | 103437 193691 193692 | C00 | C71 | C72 | C73 | C74 | C75 | C76 | C77 | C78 | C79 | C80 | C81 | C82 | C83 | C84 | C85 | C86 | C87 | C88 | C89 | C90 | C60 |
| 001 | | | | | | | | ,15 | 1,39 | ,206 | ,010 | ,013 | ,032 | ,0032 | ,053 | 0,030 | 0,038 | ,005 | ,013 | ,002 | ,001 | ,0003 | | | | | 0,40 | |
| | | | | | | | | ,15 | 1,41 | ,214 | ,008 | ,013 | ,040 | ,0026 | ,040 | 0,029 | 0,034 | ,005 | ,011 | ,001 | ,001 | ,0002 | | | | | 0,40 | |
| | | | | | | | | ,15 | 1,40 | ,188 | ,008 | ,014 | ,031 | ,0029 | ,053 | 0,026 | 0,034 | ,004 | ,011 | ,002 | ,001 | ,0001 | | | | | 0,40 | |

TOTAL : 75400 100 http://dop.arcelormittal.net/pdf/QP00020_CPR2013-07-01_FC_V012_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



0099
ArcelorMittal España, S.A.,
Residencia la Granda
33418 Gozón (Asturias - España)
07

QP00020_CPR2013-07-01_FC_V012

EN 10025-PART 2:2019

S355K2+N

Uso previsto: estructuras soldadas,
atomilladas o remachadas. (Intended
to be used in welded, bolted and
riveted structures)

Límite elástico (Yield strength)*
Resistencia a tracción
(Tensile strength)*
Alargamiento (Elongation)*
Res. 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)

Por
(For)

Juan Manuel Vigil Fernández
Jefe de Calidad Chapa Gruesa
Heavy Plate Quality Manager
Flat Carbon Europe

ArcelorMittal

Z02-Z03

Z02-Z03



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33418 - Gozón
Asturias - España

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Z02

SOCIEDAD INSPECTORA /
Classification Society

A05

ARCELOR

- (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 = Núcleo (midthickness) L = Longitudinal T = Transversal Z = Through thickness D = Diagonal
- (2) L = Longitudinal T = Transversal Z = Through thickness D = Diagonal
- (3) C = Cilíndrica (cylindrical) P = Prismática (prismatic)
- (4) RESILIENCIA (Impact test) J = Julios (joules) E = Julios/cm2 K = 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 Normalización (normalizing rolling) T = Tratamiento Termomec. (termomec. forming) N = Normalizado (normalized) 920 ± 10°C, 1.5 min/mm
- (6) Z = Estricción (Reduction of area) %

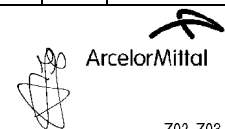
ESPECIFICACION /

Specification S355K2+N
EN 10025-PART 2:2019
HOT DIP ZINC COATING CLASS 3

| POSICION (Item) | COLADA (Heat) | IDENTIFICACION DE LA CHAPA (Plate no.) | ESTADO SUMINISTRO (As delivered cond.) | ULTRASONIDOS (UST Test) | IDENTIFICACION DE LA MUESTRA (Sample no.) | ESPESOR DE LA MUESTRA (Thickness of sample) | ENSAYO DE TRACCION (Tensile test) | | | | | | | | | | DOBLADO (Bend test) | | | | | RESILIENCIA (Impact test) | | | DUREZA (Hardness test) | | | OTROS ENSAYOS (Other tests) | | | | | |
|-----------------|---------------|--|--|-------------------------|---|---|-----------------------------------|---------|---------------------------|---------|----------------------------|-----------------------------------|--------------|--------------|---------|---------|---------------------------|---------------------------|--------------------------------|-------------------------|---------------------------|---------------------------|----------------|---------------|---------------------------|-------------------------|------------------|-----------------------------|------------------------------|---------|---------|-----------------|-------------------------------|
| | | | | | | | LOCALIZACION (Location) | | ORIENTACION (Orientation) | | TEMP. ENSA. (Test temp. C) | FORMA PROBETA (Shape of Specimen) | Re | | | Rm. | ALARGAMIENTO (Elongation) | ALARGAMIENTO (Elongation) | ESTRICCION (Reduction of Area) | LOCALIZACION (Location) | ORIENTACION (Orientation) | MANDRIL (Mandrel) | ANGULO (Angle) | B = BIEN (OK) | ORIENTACION (Orientation) | LOCALIZACION (Location) | UNIDADES (Units) | TEMP. ENSAYO (Test temp. C) | INDIVIDUALES (Single values) | | | MEDIA (Average) | TIPO DE ENSAYO (Type of test) |
| | | | | | | | (1) C01 | (2) C02 | (3) C03 | (1) C01 | | | (2) C02 | (3) C03 | (1) C01 | | | | | | | | | | | | | | (2) C02 | (3) C03 | (1) C01 | | |
| | | | | | | | MPA (N/MM2) | | | | | | 5/5,65 % C13 | C2* P8 % C14 | % C15 | (1) C01 | (2) C02 | r = n E C51 | C52 | C50 | (2) C02 | (1) C01 | (4) C33 C44 | °C C03 | 1 | 2 | 3 | C43 C32 | C30 C40 C41 | | | | |
| A10 | B07 | B07 | B04 | D02 | C00 | mm C04 | B05 | C01 | C02 | °C C03 | (3) C10 | C16 | C13 | C14 | C15 | C01 | C02 | C51 | C52 | C50 | C02 | C01 | C33 C44 | C03 | 1 | 2 | 3 | C43 C32 | C30 C40 C41 | | | | |
| 001 | 103437 | 79972091 | L | | 0710037 | 14,00 | PE | T | P | 403 | | 529 | 28,4 | | | | | | | | L | PS | J | -20 | 111 | 135 | 124 | 123 | ISO-V 10 | | | | |
| | | 79972092 | L | | 0710037 | 14,00 | PE | T | P | 403 | | 529 | 28,4 | | | | | | | | L | PS | J | -20 | 111 | 135 | 124 | 123 | ISO-V 10 | | | | |
| | | 79972093 | L | | 0710037 | 14,00 | PE | T | P | 403 | | 529 | 28,4 | | | | | | | | L | PS | J | -20 | 111 | 135 | 124 | 123 | ISO-V 10 | | | | |
| | | 79972094 | L | | 0710037 | 14,00 | PE | T | P | 403 | | 529 | 28,4 | | | | | | | | L | PS | J | -20 | 111 | 135 | 124 | 123 | ISO-V 10 | | | | |
| | 193692 | 79985841 | L | | 0730042 | 12,00 | PE | T | P | 406 | | 529 | 31,3 | | | | | | | | L | PS | J | -20 | 139 | 139 | 154 | 144 | ISO-V 10 | | | | |
| | | 79985842 | L | | 0730042 | 12,00 | PE | T | P | 406 | | 529 | 31,3 | | | | | | | | L | PS | J | -20 | 139 | 139 | 154 | 144 | ISO-V 10 | | | | |
| | | 79985843 | L | | 0730042 | 12,00 | PE | T | P | 406 | | 529 | 31,3 | | | | | | | | L | PS | J | -20 | 139 | 139 | 154 | 144 | ISO-V 10 | | | | |
| | | 79985844 | L | | 0730042 | 12,00 | PE | T | P | 406 | | 529 | 31,3 | | | | | | | | L | PS | J | -20 | 139 | 139 | 154 | 144 | ISO-V 10 | | | | |
| | | 79985851 | L | | 0730042 | 12,00 | PE | T | P | 406 | | 529 | 31,3 | | | | | | | | L | PS | J | -20 | 139 | 139 | 154 | 144 | ISO-V 10 | | | | |
| | | 79985852 | L | | 0801020 | 15,00 | PE | T | P | 390 | | 523 | 28,0 | | | | | | | | L | PS | J | -20 | 139 | 139 | 154 | 144 | ISO-V 10 | | | | |
| | | 79985853 | L | | 0801020 | 15,00 | PE | T | P | 390 | | 523 | 28,0 | | | | | | | | L | PS | J | -20 | 139 | 139 | 154 | 144 | ISO-V 10 | | | | |
| | | 79985854 | L | | 0801020 | 15,00 | PE | T | P | 390 | | 523 | 28,0 | | | | | | | | L | PS | J | -20 | 139 | 139 | 154 | 144 | ISO-V 10 | | | | |
| | | 79985861 | L | | 0801020 | 15,00 | PE | T | P | 390 | | 523 | 28,0 | | | | | | | | L | PS | J | -20 | 139 | 139 | 154 | 144 | ISO-V 10 | | | | |
| | | 79985862 | L | | 0801020 | 15,00 | PE | T | P | 390 | | 523 | 28,0 | | | | | | | | L | PS | J | -20 | 139 | 139 | 154 | 144 | ISO-V 10 | | | | |
| | | 79985863 | L | | 0801020 | 15,00 | PE | T | P | 390 | | 523 | 28,0 | | | | | | | | L | PS | J | -20 | 139 | 139 | 154 | 144 | ISO-V 10 | | | | |
| | | 79985864 | L | | 0801020 | 15,00 | PE | T | P | 390 | | 523 | 28,0 | | | | | | | | L | PS | J | -20 | 139 | 139 | 154 | 144 | ISO-V 10 | | | | |
| | | 79985961 | L | | 0801020 | 15,00 | PE | T | P | 390 | | 523 | 28,0 | | | | | | | | L | PS | J | -20 | 139 | 139 | 154 | 144 | ISO-V 10 | | | | |
| | | 79985962 | L | | 0801020 | 15,00 | PE | T | P | 390 | | 523 | 28,0 | | | | | | | | L | PS | J | -20 | 139 | 139 | 154 | 144 | ISO-V 10 | | | | |
| | | 79985963 | L | | 0801020 | 15,00 | PE | T | P | 390 | | 523 | 28,0 | | | | | | | | L | PS | J | -20 | 139 | 139 | 154 | 144 | ISO-V 10 | | | | |
| | | 79985964 | L | | 0801020 | 15,00 | PE | T | P | 390 | | 523 | 28,0 | | | | | | | | L | PS | J | -20 | 139 | 139 | 154 | 144 | ISO-V 10 | | | | |

Por la Sociedad Inspectora
(For the Classification Society)

Por (For)
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- (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 Normalización (normalizing rolling) T = Tratamiento Termomec. (termomec.forming) N = Normalizado (normalized) 920 ± 10°C, 1.5 min/mm (6) Z = Estricción (Reduction of area) %

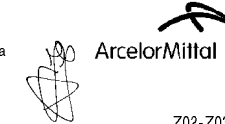
ESPECIFICACION /

Specification S355K2+N
EN 10025-PART 2:2019
HOT DIP ZINC COATING CLASS 3

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|-----------------|---------------|--|--|-------------------------|---|---|-----------------------------------|--------------|--------------|--------|---------------------------|---------------------------|--------------------------------|-------------------------|---------------------------|-------------------|---------------------|---------------|---------------------------|-------------------------|------------------|------------------------------|------------------------------|-------------|------------------------|-----------------|-------------------------------|-----------------------------|---------|-------------|
| | | | | | | | Re | | | Rm. | ALARGAMIENTO (Elongation) | ALARGAMIENTO (Elongation) | ESTRICCION (Reduction of Area) | LOCALIZACION (Location) | ORIENTACION (Orientation) | MANDRIL (Mandrel) | ANGULO (Angle) | B = BIEN (OK) | ORIENTACION (Orientation) | LOCALIZACION (Location) | UNIDADES (Units) | TEMP. ENSAYO (Test temp. °C) | INDIVIDUALES (Single values) | | | MEDIA (Average) | TIPO DE ENSAYO (Type of test) | | | |
| | | | | | | | SUPERIOR (Y.P) | 0,2 % (Y.S.) | 0,5 % (Y.S.) | | | | | | | | | | | | | | C11 | C12 | C13 | | | C14 | C15 | C16 |
| A10 | B07 | B07 | B04 | D02 | C00 | mm C04 | B05 | (1) C01 | (2) C02 | °C C03 | (3) C10 | MPA (N/MM2) | C16 | 5/5,65 % C13 | C2* P8" C14 | % C15 | (1) C01 | (2) C02 | r = n E C51 | C52 | C50 | (2) C02 | (1) C01 | (4) C33 C44 | °C C03 | 1 | 2 | 3 | C43 C32 | C30 C40 C41 |
| 001 | 193692 | 79985971 | L | | 0730042 | 12,00 | | PE | T | P | 390 | 523 | 28,0 | | | | | | | | | L | PS | J | -20 | 139 | 139 | 154 | 144 | ISO-V 10 |
| | | 79985972 | L | | 0801020 | 15,00 | | PE | T | P | 390 | 523 | 28,0 | | | | | | | | | L | PS | J | -20 | 139 | 139 | 154 | 144 | ISO-V 10 |
| | | 79985973 | L | | 0730042 | 12,00 | | PE | T | P | 390 | 523 | 28,0 | | | | | | | | | L | PS | J | -20 | 139 | 139 | 154 | 144 | ISO-V 10 |
| | | 79985974 | L | | 0801020 | 15,00 | | PE | T | P | 390 | 523 | 28,0 | | | | | | | | | L | PS | J | -20 | 139 | 139 | 154 | 144 | ISO-V 10 |
| | | 79985981 | L | | 0730042 | 12,00 | | PE | T | P | 390 | 523 | 28,0 | | | | | | | | | L | PS | J | -20 | 139 | 139 | 154 | 144 | ISO-V 10 |
| | | 79985982 | L | | 0801020 | 15,00 | | PE | T | P | 390 | 523 | 28,0 | | | | | | | | | L | PS | J | -20 | 139 | 139 | 154 | 144 | ISO-V 10 |
| | | 79985983 | L | | 0730042 | 12,00 | | PE | T | P | 390 | 523 | 28,0 | | | | | | | | | L | PS | J | -20 | 139 | 139 | 154 | 144 | ISO-V 10 |
| | | 79985984 | L | | 0801020 | 15,00 | | PE | T | P | 390 | 523 | 28,0 | | | | | | | | | L | PS | J | -20 | 139 | 139 | 154 | 144 | ISO-V 10 |
| | | 79985991 | L | | 0730042 | 12,00 | | PE | T | P | 390 | 523 | 28,0 | | | | | | | | | L | PS | J | -20 | 139 | 139 | 154 | 144 | ISO-V 10 |
| | | 79985992 | L | | 0801020 | 15,00 | | PE | T | P | 390 | 523 | 28,0 | | | | | | | | | L | PS | J | -20 | 139 | 139 | 154 | 144 | ISO-V 10 |
| | | 79985993 | L | | 0730042 | 12,00 | | PE | T | P | 390 | 523 | 28,0 | | | | | | | | | L | PS | J | -20 | 139 | 139 | 154 | 144 | ISO-V 10 |
| | | 79985994 | L | | 0801020 | 15,00 | | PE | T | P | 390 | 523 | 28,0 | | | | | | | | | L | PS | J | -20 | 139 | 139 | 154 | 144 | ISO-V 10 |
| | 193691 | 79986001 | L | | 0801020 | 15,00 | | PE | T | P | 390 | 523 | 28,0 | | | | | | | | | L | PS | J | -20 | 088 | 093 | 103 | 095 | ISO-V 5 |
| | | 79986002 | L | | 0730037 | 15,20 | | PE | T | P | 397 | 523 | 30,6 | | | | | | | | | L | PS | J | -20 | 088 | 093 | 103 | 095 | ISO-V 5 |
| | | 79986003 | L | | 0801056 | 7,00 | | PE | T | P | 397 | 523 | 30,6 | | | | | | | | | L | PS | J | -20 | 088 | 093 | 103 | 095 | ISO-V 5 |
| | | 79986004 | L | | 0730037 | 15,20 | | PE | T | P | 397 | 523 | 30,6 | | | | | | | | | L | PS | J | -20 | 088 | 093 | 103 | 095 | ISO-V 5 |

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