

Declaration of Performance
(according to regulation EU No 305/2011)

Ref. PT 1/2013 Rev. 1

Code of the product type: 1.0039

Type: Hot finished hollow sections of circular forms of non-alloy steel.

Grade S235JRH according to EN 10210-1
To be used in metal structures or in metal and concrete composite structures

PRODUCTOS TUBULARES, S.A.U.
Carretera Galindo a Ugarte s/n
48510 Valle de Trapaga (Vizcaya)

Spain

Tel: +34 944 955 011

Website: www.productostubulares.com

System of assessment and verification of constancy of performance of the product: 2+

Notified factory production control certification body,
BUREAU VERITAS, no 1035 performed the initial inspection of the manufacturing plant and of factory production control and the continuous surveillance, assessment and approval of the factory production control established in the harmonized standard concerned.

The performance of the product above identified is in conformity with the declared performance in the attached table

This declaration of performance is issued under the sole responsibility of the manufacturer (PRODUCTOS TUBULARES, S.A.U.)



Angel Iglesias

Management Systems Manager

Valle de Trapaga 16th January 2014

Essential characteristic	Performance	Harmonized technical specification
Tolerances on dimensions and shape	Circular hollow sections Values (MPa) min	EN 10210-2
Yield strength	≤ 16	235
	>16 ≤ 40	225
	>40 ≤ 63	215
	>63 ≤ 80	215
	>80 ≤ 100	215
	>100 ≤ 120	195
Tensile strength	Nominal thickness (mm)	Values (MPa) min
	>3 ≤ 100	360-510
	>100 ≤ 120	350-500
Elongation	Nominal thickness (mm)	Values (MPa) min
	≤ 40	26
	>40 ≤ 63	25
	>63 ≤ 100	24
	>100 ≤ 120	22
Impact energy KV	Nominal thickness (mm)	Values (J) min
	≤ 120	27 at +20°C (if required)
Weldability	Nominal thickness (mm)	Values (MPa) min
	≤ 16	0.37
	>16 ≤ 40	0.39
	>40 ≤ 63	0.41
	>63 ≤ 120	0.44
Durability (chemical composition)	Nominal thickness (mm)	Values (%) max
	≤ 40	C*=0.17 S=0.040 Mn=1.40 N**=0.009 P=0.040

*For nominal thickness >40 mm: C=0.20

** It is permissible to exceed the specified values provided that for each increase of 0.001% N the Pmax. content is also reduced by 0.005%. The N content of the cast analysis, however, shall not be more than 0.012%.

The max. value for nitrogen does not apply if the chemical composition shows a minimum total Al content of 0.020% with a minimum Al/N ratio of 2.1 or if sufficient other N-binding elements are present

Declaration of Performance
(according to regulation EU No 305/2011)

Ref. PT 2/2013 Rev. 1

Code of the product type: 1.0149

Type: Hot finished hollow sections of circular forms of non-alloy steel.

Grade S275J0H according to EN 10210-1
To be used in metal structures or in metal and concrete composite structures

PRODUCTOS TUBULARES, S.A.U.
Carretera Galindo a Ugarte s/n
48510 Valle de Trapaga (Vizcaya)

Spain

Tel: +34 944 955 011

Website: www.productostubulares.com

System of assessment and verification of constancy of performance of the product: 2+

Notified factory production control certification body,
BUREAU VERITAS, no 1035 performed the initial inspection of the manufacturing plant and of factory production control and the continuous surveillance, assessment and approval of the factory production control established in the harmonized standard concerned.

The performance of the product above identified is in conformity with the declared performance in the attached table

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Angel Iglesias

Management Systems Manager

Valle de Trapaga 16th January 2014

Essential characteristic	Performance	Harmonized technical specification		
Tolerances on dimensions and shape	Circular hollow sections Values (MPa) min	EN 10210-2		
			Nominal thickness (mm)	
Yield strength	≤ 16	275		
	>16 ≤ 40	265		
	>40 ≤ 63	255		
	>63 ≤ 80	245		
	>80 ≤ 100	235		
	>100 ≤ 120	225		
Tensile strength	Values (MPa) Min	EN 10210-1:2006		
			Nominal thickness (mm)	
			>3 ≤ 100	410-560
Elongation	Values (MPa) Min	EN 10210-1:2006		
			Nominal thickness (mm)	
			>100 ≤ 120	400-540
			≤ 40	23
			>40 ≤ 63	22
			>63 ≤ 100	21
Impact energy KV	Values (J) Min	EN 10210-1:2006		
			Nominal thickness (mm)	
			≤ 120	27 at +0°C (if required)
Weldability	Values (MPa) min	EN 10210-1:2006		
			Nominal thickness (mm)	
			≤ 16	0.41
			>16 ≤ 40	0.43
			>40 ≤ 65	0.45
			>65 ≤ 120	0.48
Durability (chemical composition)	Values (%) Max	EN 10210-1:2006		
			Nominal thickness (mm)	
≤ 40	C*=0.20 Mn=1.50 P=0.035	S=0.035 N**=0.009		

*For nominal thickness >40 mm: C=0.22

** It is permissible to exceed the specified values provided that for each increase of 0.001% N the Pmax. content is also reduced by 0.005%. The N content of the cast analysis, however, shall not be more than 0.012%.

The max. value for nitrogen does not apply if the chemical composition shows a minimum total Al content of 0.020% with a minimum Al/N ratio of 2:1 or if sufficient other N-binding elements are present

Declaration of Performance
(according to regulation EU No 305/2011)

Ref. PT 3/2013 Rev. 1

Code of the product type: 1.0138

Type: Hot finished hollow sections of circular forms of non-alloy steel.

Grade S275J2H according to EN 10210-1

To be used in metal structures or in metal and concrete composite structures

PRODUCTOS TUBULARES, S.A.U.

Carretera Galindo a Ugarte s/n

48510 Valle de Trapaga (Vizcaya)

Spain

Tel: +34 944 955 011

Website: www.productostubulares.com

System of assessment and verification of constancy of performance of the product: 2+

Notified factory production control certification body,
BUREAU VERITAS, no 1035 performed the initial inspection of the manufacturing plant and of factory production control and the continuous surveillance, assessment and approval of the factory production control established in the harmonized standard concerned.

The performance of the product above identified is in conformity with the declared performance in the attached table

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Angel Iglesias

Management Systems Manager

Valle de Trapaga 16th January 2014

Essential characteristic	Performance	Harmonized technical specification
Tolerances on dimensions and shape	Nominal thickness (mm)	EN 10210-2
	Values (MPa) min	
Yield strength	≤ 16	275
	>16 ≤ 40	265
	>40 ≤ 63	255
	>63 ≤ 80	245
	>80 ≤ 100	235
	>100 ≤ 120	225
Tensile strength	Nominal thickness (mm)	Values (MPa) Min
	>3 ≤ 100	410-560
	>100 ≤ 120	400-540
	Nominal thickness (mm)	Values (MPa) Min
Elongation	≤ 40	23
	>40 ≤ 63	22
	>63 ≤ 100	21
	>100 ≤ 120	19
	Nominal thickness (mm)	Values (J) Min
Impact energy KV	≤ 120	27 at -20°C
	Nominal thickness (mm)	Values (MPa) min
Weldability	≤ 16	0.41
	>16 ≤ 40	0.43
	>40 ≤ 65	0.45
	>65 ≤ 120	0.48
	Nominal thickness (mm)	Values (%) Max
Durability (chemical composition)	≤ 40	C*=0.20 S=0.030 Mn=1.50 N**=--- P=0.030
	*For nominal thickness >40 mm: C=0.22	

EN 10210-1:2006

Declaration of Performance
(according to regulation EU No 305/2011)

Ref. PT 4/2013 Rev. 1

Code of the product type: 1.0547

Type: Hot finished hollow sections of circular forms of non-alloy steel.

Grade S355J0H according to EN 10210-1
To be used in metal structures or in metal and concrete composite structures

PRODUCTOS TUBULARES, S.A.U.
Carretera Galindo a Ugarte s/n
48510 Valle de Trapaga (Vizcaya)

Spain

Tel: +34 944 955 011

Website: www.productostubulares.com

System of assessment and verification of constancy of performance of the product: 2+

Notified factory production control certification body,
BUREAU VERITAS, no 1035 performed the initial inspection of the manufacturing plant and of factory production control and the continuous surveillance, assessment and approval of the factory production control established in the harmonized standard concerned.

The performance of the product above identified is in conformity with the declared performance in the attached table

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Angel Iglesias
Management Systems Manager
Valle de Trapaga 16th January 2014

Essential characteristic	Performance	Harmonized technical specification	
Tolerances on dimensions and shape	Circular hollow sections	EN 10210-2	
	Values (MPa) min		
Yield strength	Nominal thickness (mm)	EN 10210-1:2006	
	≤ 16		355
	>16 ≤ 40		345
	>40 ≤ 63		335
	>63 ≤ 80		325
	>80 ≤ 100		315
Tensile strength	Nominal thickness (mm)	EN 10210-1:2006	
	>100 ≤ 120		295
	Values (MPa) Min		
	>3 ≤ 100		470-630
	>100 ≤ 120		450-600
	Values (MPa) Min		
Elongation	Nominal thickness (mm)	EN 10210-1:2006	
	≤ 40		22
	>40 ≤ 63		21
	>63 ≤ 100		20
	>100 ≤ 120		18
	Values (J) Min		
Impact energy KV	Nominal thickness (mm)	EN 10210-1:2006	
	≤ 120		27 at +0°C (if required)
Weldability	Nominal thickness (mm)	EN 10210-1:2006	
	≤ 16		0.45
	>16 ≤ 40		0.47
	>40 ≤ 65		0.50
	>65 ≤ 120		0.53
	Values (%) Max		
Durability (chemical composition)	Nominal thickness (mm)	EN 10210-1:2006	
	≤ 40		C*=0.22 S=0.035 Mn=1.60 N**=0.009 P=0.035

*For nominal thickness >40 mm: C=0.22

** It is permissible to exceed the specified values provided that for each increase of 0.001% N the Pmax content is also reduced by 0.005%. The N content of the cast analysis, however, shall not be more than 0.012%.

The max. value for nitrogen does not apply if the chemical composition shows a minimum total Al content of 0.020% with a minimum Al/N ratio of 2:1 or if sufficient other N-binding elements are present

Declaration of Performance
(according to regulation EU No 305/2011)

Ref. PT 5/2013 Rev. 1

Code of the product type: 1.0576

Type: Hot finished hollow sections of circular forms of non-alloy steel.

Grade S355J2H according to EN 10210-1

To be used in metal structures or in metal and concrete composite structures

PRODUCTOS TUBULARES, S.A.U.

Carretera Galindo a Ugarte s/n

48510 Valle de Trapaga (Vizcaya)

Spain

Tel: +34 944 955 011

Website: www.productostubulares.com

System of assessment and verification of constancy of performance of the product: 2+

Notified factory production control certification body,
BUREAU VERITAS, no 1035 performed the initial inspection of the manufacturing plant and of factory production control and the continuous surveillance, assessment and approval of the factory production control established in the harmonized standard concerned.

The performance of the product above identified is in conformity with the declared performance in the attached table

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Angel Iglesias

Management Systems Manager

Valle de Trapaga 16th January 2014

Essential characteristic	Performance	Harmonized technical specification
Tolerances on dimensions and shape	Circular hollow sections	EN 10210-2
	Nominal thickness (mm)	
Yield strength	≤ 16	355
	>16 ≤ 40	345
	>40 ≤ 63	335
	>63 ≤ 80	325
	>80 ≤ 100	315
	>100 ≤ 120	295
Tensile strength	Nominal thickness (mm)	Values (MPa) Min
	>3 ≤ 100	470-630
	>100 ≤ 120	450-600
Elongation	Nominal thickness (mm)	Values (MPa) Min
	≤ 40	22
	>40 ≤ 63	21
	>63 ≤ 100	20
	>100 ≤ 120	18
Impact energy KV	Nominal thickness (mm)	Values (J) Min
	≤ 120	27 at -20°C
Weldability	Nominal thickness (mm)	Values (MPa) min
	≤ 16	0.45
	>16 ≤ 40	0.47
	>40 ≤ 65	0.50
	>65 ≤ 120	0.53
Durability (chemical composition)	Nominal thickness (mm)	Values (%) Max
	≤ 40	C* = 0.22 S = 0.030 Mn = 1.60 N** = --- P = 0.030

*For nominal thickness >40 mm: C=0.22

Declaration of Performance
(according to regulation EU No 305/2011)

Ref. PT 6/2013 Rev. 1

Code of the product type: 1.0512

Type: Hot finished hollow sections of circular forms of non-alloy steel.

Grade S355K2H according to EN 10210-1

To be used in metal structures or in metal and concrete composite structures

PRODUCTOS TUBULARES, S.A.U.

Carretera Galindo a Ugarte s/n

48510 Valle de Trápaga (Vizcaya)

Spain

Tel: +34 944 955 011

Website: www.productostubulares.com

System of assessment and verification of constancy of performance of the product: 2+

Notified factory production control certification body,
BUREAU VERITAS, no 1035 performed the initial inspection of the manufacturing plant and of factory production control and the continuous surveillance, assessment and approval of the factory production control established in the harmonized standard concerned.

The performance of the product above identified is in conformity with the declared performance in the attached table

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Angel Iglesias

Management Systems Manager

Valle de Trápaga 16th January 2014

Essential characteristic	Performance	Harmonized technical specification
Tolerances on dimensions and shape	Nominal thickness (mm)	EN 10210-2
	Values (MPa) min	
Yield strength	≤ 16	355
	>16 ≤ 40	345
	>40 ≤ 63	335
	>63 ≤ 80	325
	>80 ≤ 100	315
	>100 ≤ 120	295
Tensile strength	Nominal thickness (mm)	Values (MPa) Min
	>3 ≤ 100	470-630
	>100 ≤ 120	450-600
Elongation	Nominal thickness (mm)	Values (MPa) Min
	≤ 40	22
	>40 ≤ 63	21
	>63 ≤ 100	20
	>100 ≤ 120	18
Impact energy K V	Nominal thickness (mm)	Values (J) Min
	≤ 120	40** at -20°C
Weldability	Nominal thickness (mm)	Values (MPa) min
	≤ 16	0.45
	>16 ≤ 40	0.47
	>40 ≤ 65	0.50
	>65 ≤ 120	0.53
Durability (chemical composition)	Nominal thickness (mm)	Values (%) Max
	≤ 40	C*=0.22 S=0.030 Mn=1.60 N**=--- P=0.030

*For nominal thickness >40 mm: C=0.22
** This value corresponds to 27J at -30°C (see EN 1993-1-1)