

### Declaration of Performance

(according to regulation EU No 305/2011)

No. CPD-142/08/02/07/0

1) **Product type:** Hot finished structural hollow sections of non-alloy and fine grain steels

2) **Type:** S235JRH 1.0039 acc. to EN 10210

Intended use or uses of the construction product, in accordance

with the applicable harmonised technical specification, as foreseen by the manufacturer:

3) **Borusan Mannesmann Boru A.Ş**

Medisi Mebusan Cad. No: 37 34427

Salipazarı / İstanbul Turkey

+90 212 393 58 00

in factory

Ata Mah. Sanayi Cad. No: 54/68 16601

Gemlik/Bursa Turkey

[www.borusanmannesmann.com](http://www.borusanmannesmann.com)

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

Notified factory production control certification body No. 1017

TÜV SÜD Czech s.r.o performed the initial inspection of the

manufacturing plant and of factory production control and the continuous surveillance, assessment, and evaluation of factory production control and issued the certificate of conformity of the factory production control.

The performance of the product identified in points 1 and 2 is in conformity with the declared performance in the table. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 3. Signed for and on behalf of the manufacturer by

Alkın Eten

Quality Manager



Date:01.07.2013

Essential Characteristic	Performance	Harmonised Tech. Spec.		
Tolerances	Outside dimensions	EN 10210-2		
	Thickness			
	Out of Roundness			
	Concavity			
	Squareness of side			
	External corner profile			
	Twist			
	Straightness			
	Mass			
	Random Length			
Approximate Length	Table 4			
Exact Length	Table 4			
Yield strength	Maximum weld bead height	Table 5		
	Nominal Thickness (mm)		Values (N/mm <sup>2</sup> )	
Tensile strength	>	≤	min	235
		16		
	Nominal Thickness (mm)		Values (N/mm <sup>2</sup> )	
	<		min	max
	3		360	510
Elongation	≥	≤		
	3	100	360	510
	Nominal Thickness (mm)		Values (%)	
Impact strength	>	≤	min	
		40		26
Weldability	Test Temperature (°C)		Min. value (J)	
		20		27
	Nominal Thickness (mm)		Values (%)	
Durability (Chemical composition)	>	≤	max	
		16		0,37
Durability (Chemical composition)	Nominal Thickness (mm)		Values (%)	
	>	≤	max	
Durability (Chemical composition)		40		
			C : 0,27	Si : -
		Mn : 1,40	P : 0,045	
		S : 0,045	N : 0,009	

\* : The max value of nitrogen does not apply if the chemical composition shows a minimum total Al content of %0,020 or if sufficient other N binding elements are present.

**Declaration of Performance**

(according to regulation EU No 305/2011)  
CPD-142/08/02/07/0

**1) Product type:** Hot finished structural hollow sections of non-alloy and fine grain steels

**2) Type:** S275J0H 1.0149 acc. to EN 10210

Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:

**3) Borusan Mannesmann Boru A.Ş**

Mecidi Mebusan Cad. No: 37 34427  
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Akin Eren

Quality Manager



Date: 01.07.2013

Essential Characteristic	Performance	Harmonised Tech. Spec.		
Tolerances	Outside dimensions	EN 10210-2		
	Thickness			
	Out of Roundness			
	Concavity			
	Squeness of side			
	External corner profile			
	Twist			
	Straightness			
	Mass			
	Random Length			
Yield strength	Approximate Length	Table 4		
	Exact Length	Table 4		
	Maximum weld bead height	Table 5		
Tensile strength	Nominal Thickness (mm)	Values (N/mm <sup>2</sup> )		
	>	min		
	16	275		
	<	max		
	3	430		
Elongation	2	≤	580	
	3	100	410	560
	Nominal Thickness (mm)	Values (%)		
	>	≤	min	
Impact strength	40	23		
	Test Temperature (°C)	Min. value (J)		
	0	27		
Weldability	Nominal Thickness (mm)	Values (%)		
	>	≤	max	
	16	0,41		
Durability (Chemical composition)	Nominal Thickness (mm)	Values (%)		
	>	≤	max	
	40	C : 0,20 Mn : 1,50 S : 0,035	Si : - P : 0,035 N* : 0,009	

\* : The max value of nitrogen does not apply if the chemical composition shows a minimum total Al content of %0,020 or if sufficient other N binding elements are present.

EN 10210-1



**Declaration of Performance**

(according to regulation EU No 305/2011)

No. CPD-142/08/02/07/0

**1) Product type:** Hot finished structural hollow sections of non-alloy and fine grain steels

**2) Type:** S275J2H 1.0138 acc. to EN 10210

Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:

**3) Borusan Mannesmann Boru A.Ş**

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Alkın Eren  
Quality Manager



Date: 01.07.2013

Essential Characteristic	Performance	Harmonised Tech. Spec.
<b>Tolerances</b>	Outside dimensions	Table 2
	Thickness	
	Out of Roundness	
	Concavity	
	Squareness of side	
	External corner profile	
	Twist	
	Straightness	
	Mass	
	Random Length	
<b>Yield strength</b>	Approximate Length	Table 4
	Exact Length	Table 5
	Maximum weld bead height	Table 5
<b>Tensile strength</b>	Nominal Thickness (mm)	Values (N/mm <sup>2</sup> )
	>	min
	16	275
	Nominal Thickness (mm)	Values (N/mm <sup>2</sup> )
	<	min
3	430	
≥	max	
3	580	
<b>Elongation</b>	Nominal Thickness (mm)	Values (%)
	>	min
	40	23
<b>Impact strength</b>	Test Temperature (°C)	Min. value (J)
	-20	27
<b>Weldability</b>	Nominal Thickness (mm)	Values (%)
	>	max
	16	0,41
<b>Durability (Chemical composition)</b>	Nominal Thickness (mm)	Values (%)
	>	max
	40	C : 0,20 Min : 1,50 S : 0,030
		Si : - P : 0,030 N* : -

\* : The max value of nitrogen does not apply if the chemical composition shows a minimum total Al content of %0,020 or if sufficient other N binding elements are present.

**Declaration of Performance**

(according to regulation EU No 305/2011)

No: CPD-142/08/02/07/0

**1) Product type:** Hot finished structural hollow sections of non-alloy and fine grain steels

**2) Type:** S355J0H 1.0547 acc. to EN 10210

Intended use or uses of the construction product, in accordance

with the applicable harmonised technical specification, as foreseen by the manufacturer:

**3) Borusan Mannesmann Boru A.Ş**

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Quality Manager



Date: 01.07.2013

Essential Characteristic		Performance		Harmonised Tech. Spec.
Tolerances	Outside dimensions			EN 10210-2
	Thickness			
	Out of Roundness			
	Concavity			
	Squareness of side	Table 2		
	External corner profile			
	Twist			
	Straightness			
	Mass			
	Random Length	Table 4		
Approximate Length				
Exact Length				
Maximum weld bead height	Table 5			
Yield strength	Nominal Thickness (mm)	Values (N/mm <sup>2</sup> )		
	>	≤	min	
		16	355	
Tensile strength	Nominal Thickness (mm)	<	min	max
		3	510	680
	≥	≤		
	3	100	470	630
	Nominal Thickness (mm)	Values (%)		
>	≤	min		
Elongation	>	40	22	
	Test Temperature (°C)	Min. value (l)		
Impact strength	0	27		
	Nominal Thickness (mm)	Values (%)		
		>	≤	max
Weldability	16	0,45		
	Nominal Thickness (mm)	Values (%)		
		>	≤	max
Durability (Chemical composition)	Nominal Thickness (mm)	max		
		40	C : 0,22 Si : 0,55 Mn : 1,60 P : 0,035 S : 0,035 N* : 0,009	
	>	min		

\* : The max value of nitrogen does not apply if the chemical composition shows a minimum total Al content of %0,020 or if sufficient other N binding elements are present



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(according to regulation EU No 305/2011)  
No. CPD-142/08/02/07/0

**1) Product type:** Hot finished structural hollow sections of non-alloy and fine grain steels

**2) Type:** S355J2H 1.0576 acc. to EN 10210

Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:

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

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Alın Eren  
Quality Manager



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Essential Characteristic		Performance	Harmonised Tech. Spec.
<b>Tolerances</b>	Outside dimensions	Table 2	EN 10210-2
	Thickness		
	Out of Roundness		
	Concavity		
	Squareness of side		
	External corner profile		
	Twist		
	Straightness		
	Mass		
	Random Length		
Approximate Length	Table 4		
Exact Length	Table 4		
Maximum weld bead height	Table 5		
<b>Yield strength</b>	Nominal Thickness (mm)	Values (N/mm <sup>2</sup> )	
	>	≤	min
<b>Tensile strength</b>	Nominal Thickness (mm)	Values (N/mm <sup>2</sup> )	
	>	<	min
	3	3	510
	≥	≤	max
	3	100	470
<b>Elongation</b>	Nominal Thickness (mm)	Values (%)	
	>	≤	min
<b>Impact strength</b>	Test Temperature (°C)	Min. value (J)	
	-20	27	EN 10210-1
<b>Weldability</b>	Nominal Thickness (mm)	Values (%)	
	>	≤	max
<b>Durability (Chemical composition)</b>	Nominal Thickness (mm)	Values (%)	
	>	≤	max

\* : The max value of nitrogen does not apply if the chemical composition shows a minimum total Al content of %0,020 or if sufficient other N binding elements are present

C : 0,22      Si : 0,55  
Mn : 1,60      P : 0,030  
S : 0,030      N\* : -

**Declaration of Performance**

(according to regulation EU No 305/2011)

No. CPD-01.242.834/10/02/07/0

**1) Product type:** Welded Structural Hollow Sections of Non-Alloy And Fine Grain Steels

**2) Type:** S235JRH 1.0039 acc. to EN 10219-1

Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:

**3) Borusan Mannesmann Boru A.Ş**

Mecidi Mebusan Cad. No: 37 34427

Sallpazarı / Istanbul Turkey

+90 212 393 58 00

in factory

Ata Mah. Sanayi Cad. No: 54/68 16601

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Quality Manager

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Essential Characteristic		Performance	Harmonised Tech. Spec.		
Tolerances	Outside dimensions	Table 2	EN 10219-2		
	Thickness				
	Out of Roundness				
	Concavity				
	Squareness of side				
	External corner profile				
	Twist				
	Straightness				
	Mass				
	Random Length			Table 4	
Approximate Length	Table 4				
Exact Length	Table 4				
Yield strength	Maximum weld bead height	Table 5			
	Nominal Thickness (mm)	Values (N/mm <sup>2</sup> )			
	>	≤		min	max
Tensile strength	16	16	235		
		40	225		
	Nominal Thickness (mm)	<	min	max	
		3	360	510	
	2	≤	340	470	
		40	340	470	
	Elongation	Nominal Thickness (mm)	≤	min	
			40	24	
	Impact strength	Test Temperature (°C)	20	Min. value (J)	EN 10219-1
			27		
Weldability	Nominal Thickness (mm)	≤	Values (%)		
		40	max		
Durability (Chemical composition)	Nominal Thickness (mm)	≤	Values (%)		
		40	max		
		C : 0,17	S <sub>1</sub> : -		
		Mn : 1,40	P : 0,045		
		S : 0,045	N* : 0,009		

\* : The max value of nitrogen does not apply if the chemical composition shows a minimum total Al content of %0,020 or if sufficient other N binding elements are present.



**Declaration of Performance**

(according to regulation EU No 305/2011)

No. CPD-01.242.834/10/02/07/0

**1) Product type:** Welded Structural Hollow Sections of Non-Alloy And Fine Grain Steels

**2) Type:** S275J0H 1.0149 acc. to EN 10219-1

Intended use or uses of the construction product, in accordance

with the applicable harmonised technical specification, as foreseen by the manufacturer:

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Tolerances	Outside dimensions			EN 10219-2
	Thickness			
	Out of Roundness			
	Concavity			
	Squareness of side	Table 2		
	External corner profile			
	Twist			
	Straightness			
	Mass			
	Random Length	Table 4		
Approximate Length				
Exact Length				
Maximum weld bead height	Table 5			
Yield strength	Nominal Thickness (mm)	Values (N/mm <sup>2</sup> )		
	>	≤	min	
	16	40	275	
	16	40	265	
Tensile strength	Nominal Thickness (mm)	Values (N/mm <sup>2</sup> )		
	<	≥	min	max
	3	40	430	580
	3	40	410	560
Elongation	Nominal Thickness (mm)	Values (%)		
	≤	min		
Impact strength	40	20		
	Test Temperature (°C)	Min. value (J)		EN 10219-1
Weldability	0	27		
	Nominal Thickness (mm)	Values (%)		
	≤	max		
Durability (Chemical composition)	40	0,4		
	Nominal Thickness (mm)	Values (%)		
	≤	max		
		C : 0,20	SI : -	
		Mn : 1,50	P : 0,040	
		S : 0,040	N* : 0,009	

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No. CPD-01.242.834/10/02/07/0

**1) Product type:** Welded Structural Hollow Sections of Non-Alloy And Fine Grain Steels

**2) Type:** S275J2H 1.0138 acc. to EN 10219-1

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Essential Characteristic	Performance	Harmonised Tech. Spec.
<b>Tolerances</b>	Outside dimensions	Table 2 EN 10219-2
	Thickness	
	Out of Roundness	
	Concavity	
	Squareness of side	
	External corner profile	
	Twist	
	Straightness	
	Mass	
	Random Length	
<b>Yield strength</b>	Approximate Length	Table 4
	Exact Length	Table 5
	Maximum weld bead height	Table 5
<b>Tensile strength</b>	Nominal Thickness (mm)	Values (N/mm <sup>2</sup> )
	>	min
	16	275
	40	265
	Nominal Thickness (mm)	min
<b>Elongation</b>	<	max
	3	430
	≤	580
	3	410
	40	560
<b>Impact strength</b>	Nominal Thickness (mm)	Values (%)
	≤	min
	40	20
<b>Weldability</b>	Test Temperature (°C)	Min. value (J)
	-20	27
	Nominal Thickness (mm)	Values (%)
<b>Durability (Chemical composition)</b>	≤	max
	40	0.4
	Nominal Thickness (mm)	Values (%)
	≤	max
	40	SI :-
	40	Mn : 1,50 P : 0,035 S : 0,035 N* :-

\* : The max value of nitrogen does not apply if the chemical composition shows a minimum total Al content of %0,020 or if sufficient other N binding elements are present



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**2) Type:** S355J0H 1.0547 acc. to EN 10219-1

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Altın Eren  
Quality Manager

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Essential Characteristic	Performance	Harmonised Tech. Spec.			
Tolerances	Outside dimensions	Table 2			
	Thickness				
	Out of Roundness				
	Concavity				
	Squareness of side				
	External corner profile				
	Twist				
	Straightness				
	Mass				
	Random Length		Table 4		
Approximate Length					
Exact Length					
Yield strength	Maximum weld bead height	Table 5			
	Nominal Thickness (mm)		Values (N/mm <sup>2</sup> )		
Tensile strength	>	≤	min	Values (N/mm <sup>2</sup> )	
	16	16	355		
	40	40	345		
	Nominal Thickness (mm)	<	min		max
	3	3	510		680
	2	≤	490		630
Elongation	Nominal Thickness (mm)	40	490	630	
	≤	min			
Impact strength	40	20			
	Test Temperature (°C)	Min. value (J)			
Weldability	0	27			
	Nominal Thickness (mm)	Values (%)			
	≤	max			
Durability (Chemical composition)	40	0,45			
	Nominal Thickness (mm)	Values (%)			
	≤	max			
* : The max value of nitrogen does not apply if the chemical composition shows a minimum total Al content of %0,020 or if sufficient other N binding elements are present.	C : 0,22	Si : 0,55			
	Min : 1,60	P : 0,040			
	S : 0,040	N* : 0,009			