

## Duferco Danish Steel

Duferco GROUP

Declaration of Performance		DoP No.: DDS 001
According to Annex III Construction Products Regulation (305/2011/EU)		
For the construction products	Hot-rolled steel bars and sections	
1. Unique identification code for product type	S235JR / S275JR + AR	
2. Batch No./Serial No.: Acc. To article 11 par. 4	See marking / label / inspection certificate	
3. Intended use for construction product:	Bars and sections for steel construction	
4. Contact address of manufacturer: Acc. To article 11 par. 5	Duferco Danish Steel A/S Havnevej 47, 3300 Frederiksværk Denmark	
5. Contact address of authorized representative: Acc. Article 12 per. 2	Not relevant	
6. Assessment system and verification for constancy of performance: Acc. to annex V	EN 10025-1, annex ZA, System 2+	
7. The notified body: has conducted the first inspection and continuous surveillance according to the system: and issued the certificate:	TÜV Nord Systems GmbH & Co. KG, Hamburg, Kenn.Nr. 0045  2+ 0045-CPR-0620	
8. Construction product with European Technical Assessment:	no	

The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of Performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer:

Inge Beierholm

Quality Manager

.....  
Name and function

Frederiksværk, 12-07-2013



.....  
Place and date

.....  
Signature:

9. Declared performance:								
Essential characteristics				Performance			Harmonized technical specification	
Tolerance on dimensions and shape	Flat				EN 10058		EN 10025-1: 2004	
	Round				EN 10060			
	Square				En 10059			
	UNP				EN 10279			
	Equal angle				EN 10056-2			
Unequal angle				EN 10056-2				
Yield strength S235JR / S275JR	Nominal thickness mm			Min values MPa				
		≤16		275				
	>16	≤40		265				
	>40	≤63		255				
	>63	≤80		245				
Tensile strength	Nominal thickness mm			Min/max values MPa				
	=3	≤100		410-510				
Elongation	Nominal thickness mm			Min values % (A5)				
	≥ 3	≤ 40		26				
	>40	≤63		25				
	>63	≤100		24				
Impact test (if agreed at the time of the order)	Nominal thickness mm		Temperature °C	Min values Joule				
	≤ 150		+20	27				
Weldability	Nominal thickness mm			CEV max values %				
		≤30		0,35				
	>30	≤40		0,35				
	>40	≤150		0,38				
Durability (Chemical composition)	C% max		Si % max	Mn % max	P % max	S % max	N % max	Cu % max
	≤ 16	>16 ≤ 40	>40					
	0,17	0,17	0,20		1,40	0,040	0,040	0,012

## Duferco Danish Steel

Duferco GROUP

Declaration of Performance		DoP No.: DDS 008
According to Annex III Construction Products Regulation (305/2011/EU)		
For the construction products	Hot-rolled steel bars and sections	
1. Unique identification code for product type	S355J0 + AR	
2. Batch No./Serial No.: Acc. To article 11 par. 4	See marking / label / inspection certificate	
3. Intended use for construction product:	Bars and sections for steel construction	
4. Contact address of manufacturer: Acc. To article 11 par. 5	Duferco Danish Steel A/S Havnevej 47, 3300 Frederiksværk Denmark	
5. Contact address of authorized representative: Acc. Article 12 per. 2	Not relevant	
6. Assessment system and verification for constancy of performance: Acc. to annex V	EN 10025-1, annex ZA, System 2+	
7. The notified body: has conducted the first inspection and continuous surveillance according to the system: and issued the certificate:	TÜV Nord Systems GmbH & Co. KG, Hamburg, Kenn.Nr. 0045  2+ 0045-CPR-0620	
8. Construction product with European Technical Assessment:	no	

The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of Performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer:

Inge Beierholm

Quality Manager

.....  
Name and function

Frederiksværk, 12-07-2013



.....  
Place and date

.....  
Signature:

9. Declared performance:									
Essential characteristics			Performance			Harmonized technical specification			
Tolerance on dimensions and shape	Flat		EN 10058			EN 10025-1: 2004			
	Round		EN 10060						
	Square		En 10059						
	UNP		EN 10279						
	Equal angle		EN 10056-2						
Unequal angle		EN 10056-2							
Yield strength S355J0	Nominal thickness mm		Min values MPa						
		≤16	355						
	>16	≤40	345						
	>40	≤63	335						
	>63	≤80	325						
Tensile strength	Nominal thickness mm		Min/max values MPa						
	=3	≤100	470-630						
Elongation	Nominal thickness mm		Min values % (A5)						
	≥ 3	≤ 40	22						
	>40	≤63	21						
	>63	≤100	20						
Impact test	Nominal thickness mm	Temperature °C	Min values Joule						
	≤ 150	0	27						
Weldability	Nominal thickness mm		CEV max values %						
		≤30	0,45						
	>30	≤40	0,47						
	>40	≤150	0,47						
Durability (Chemical composition)	C% max			Si % max	Mn % max	P % max	S % max	N % max	Cu % max
	≤ 16	>16 ≤ 40	>40						
	0,20	0,20	0,22	0,55	1,60	0,035	0,035	0,012	0,55

## Duferco Danish Steel

Duferco GROUP

Declaration of Performance		DoP No.: DDS 009
According to Annex III Construction Products Regulation (305/2011/EU)		
For the construction products	Hot-rolled steel bars and sections	
1. Unique identification code for product type	S355J2 + AR	
2. Batch No./Serial No.: Acc. To article 11 par. 4	See marking / label / inspection certificate	
3. Intended use for construction product:	Bars and sections for steel construction	
4. Contact address of manufacturer: Acc. To article 11 par. 5	Duferco Danish Steel A/S Havnevej 47, 3300 Frederiksværk Denmark	
5. Contact address of authorized representative: Acc. Article 12 per. 2	Not relevant	
6. Assessment system and verification for constancy of performance: Acc. to annex V	EN 10025-1, annex ZA, System 2+	
7. The notified body: has conducted the first inspection and continuous surveillance according to the system: and issued the certificate:	TÜV Nord Systems GmbH & Co. KG, Hamburg, Kenn.Nr. 0045  2+ 0045-CPR-0620	
8. Construction product with European Technical Assessment:	no	

The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of Performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer:

Inge Beierholm

Quality Manager

.....  
Name and function

Frederiksværk, 12-07-2013



.....  
Place and date

.....  
Signature:

9. Declared performance:									
Essential characteristics				Performance			Harmonized technical specification		
Tolerance on dimensions and shape	Flat				EN 10058		EN 10025-1: 2004		
	Round				EN 10060				
	Square				En 10059				
	UNP				EN 10279				
	Equal angle				EN 10056-2				
Unequal angle				EN 10056-2					
Yield strength S355J2	Nominal thickness mm			Min values MPa					
			≤16			355			
	>16	≤40				345			
	>40	≤63				355			
		>63	≤80			325			
Tensile strength	Nominal thickness mm			Min/max values MPa					
	=3		≤100			470-630			
Elongation	Nominal thickness mm			Min values % (A5)					
	≥ 3		≤ 40			22			
	>40		≤63			21			
		>63	≤100			20			
Impact test	Nominal thickness mm		Temperature °C	Min values Joule					
	≤ 150		-20	27					
Weldability	Nominal thickness mm			CEV max values %					
			≤30			0,45			
	>30		≤40			0,47			
		>40	≤150			0,47			
Durability (Chemical composition)	C% max			Si % max	Mn % max	P % max	S % max	N % max	Cu % max
	≤ 16	>16 ≤ 40	>40						
	0,20	0,20	0,22	0,55	1,60	0,030	0,030		0,55