Duferco Danish Steel
Duferco GROUP

Declaration of Performance

DoP No.: DDS 004

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	**S235J2 + AR EN 10025-2: 2004**
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:	**TÛV Nord Systems GmbH & Co. KG, Hamburg, Kenn.Nr. 0045** **2+** **0045-CPR-0620**
8. Construction product with European Technical Assessment:	**no**

10 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

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Name and function

Frederiksværk, 11-11-2013

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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	
	EN 10025-2: 2004			
Yield strength S235J2	**Nominal thickness mm**		**Min values MPa**	
		≤16	235	
	>16	≤40	225	
	>40	≤63	215	
	>63	≤80	215	
Tensile strength	**Nominal thickness mm**		**Min/max values MPa**	
	=3	≤100	360-510	
Elongation	**Nominal thickness mm**		**Min values % (A5)**	
	≥ 3	≤ 40	26	
	>40	≤63	25	
	>63	≤100	24	
Impact test	**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	0,17	-	1,40	0,030	0,030	-	0,55
	Fully killed steel containing nitrogen binding elements in amounts sufficient to bind the available nitrogen (f ex min 0,020% Al)								