



## Declaration of Performance

NO.: HSPQA28JUNE\_01

**1. Name and identification code:**

Hot Rolled H Beams of Structural Steels,  
Types S235/S275/S355 and grades JR/J0/J2/K2

**2. Intended use:**

To be used in-welded, bolted and riveted structures.

**3. Name and manufacturer's address:**

HYUNDAI STEEL COMPANY POHANG WORKS  
444, Songnae-dong, Nam-gu, Pohang, Kyungbuk, S. KOREA  
Tel: +82 54 271 1954  
www.hyundai-steel.com

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

**5. Notified Body:**

Assessment and evaluation of factory production control for the system 2+  
Factory production control certificate 0035-CPD-060001-2, issued on 26th March 2012,  
As certified by TÜV Rheinland Industrie Service GmbH Am Grauen Stein 51105 Cologne, Germany

The performance of the product identified in point 1 is in conformity with the declared performance in point 6.

This declaration of performance is issued under the sole responsibility of manufacturer indicated in point 3.

Signed for and on behalf of the manufacturer:

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D. G. Kang  
General Manager of Quality Assurance Team  
Place of issue : Pohang, S. Korea  
Date : June. 28th. 2013



## 6. Determined performances:

Essential Characteristics	Performance		Harmonised technical specification							
Tolerance on dimensions and Shape	H section		EN10034							
Tensile strength	Type and grade		Nominal thickness(mm)							
			5 ≤ t ≤ 50							
	S235JR/J0/J2		360 to 510							
	S275JR/J0/J2		410 to 560							
S355JR/J0/J2/K2		470 to 630								
Yield strength	Type and grade		Nominal thickness(mm)							
			5 ≤ t ≤ 16	16 < t ≤ 40	40 < t ≤ 50					
	S235JR/J0/J2		235	225	215					
	S275JR/J0/J2		275	265	255					
S355JR/J0/J2/K2		355	345	335						
Elongation	Type and grade		Nominal thickness(mm)							
			5 ≤ t ≤ 40	40 < t ≤ 50						
	S235JR/J0		26	25						
	S235J2		24	23						
	S275JR/J0		23	22						
	S275J2		21	20						
	S355JR/J0/J2		22	21						
S355K2		20	19							
Impact strength	Type and grade		Temperature (°C)		Nominal thickness (t ≤ 50mm)					
	S235/275/355JR		20		27					
	S235/275/355J0		0		27					
	S235/275/355J2		-20		27					
	355K2		-20		40					
Weldability (CEV)	Type and grade		Nominal thickness(mm)							
			5 ≤ t ≤ 30	30 < t ≤ 40	40 < t ≤ 50					
	S235JR/J0/J2		0.35	0.35	0.38					
	S275JR/J0/J2		0.40	0.40	0.42					
S355JR/J0/J2/K2		0.45	0.49	0.49						
Durability (Chemical composition)	Type and grade		C % Max.		Si % Max.	Mn % Max.	P % Max.	S % Max.	N % Max.	Cu % Max.
			t ≤ 40	40 < t						
	S235JR		0.17	0.20	-	1.40	0.35	0.35	0.012	0.55
	S235J0		0.17	0.20	-	1.40	0.30	0.30	0.012	0.55
	S235J2		0.17	0.17	-	1.40	0.25	0.25	-	0.55
	S275JR		0.21	0.22	-	1.50	0.35	0.35	0.012	0.55
	S275J0		0.18	0.18	-	1.50	0.30	0.30	0.012	0.55
	S275J2		0.18	0.18	-	1.50	0.25	0.25	-	0.55
	S355JR		0.24	0.24	0.55	1.60	0.35	0.35	0.012	0.55
	S355J0		0.20	0.22	0.55	1.60	0.30	0.30	0.012	0.55
	S355J2		0.20	0.22	0.55	1.60	0.25	0.25	-	0.55
S355K2		0.20	0.22	0.55	1.60	0.25	0.25	-	0.55	

EN 10025-1:2004

