

## DECLARATION OF PERFORMANCE

(According to EU-REGUALTION 305/2011, ANNEX III)

No. DongbuSteel-1801

1. Unique identification code of the product-type : **55% Aluminum-Zinc coated Steel Sheets**
2. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer: **To be used in welded, bolted and riveted structures.**
3. Name, registered trade name or registered trade mark and contact address of the manufacturer:

**DONGBU STEEL CO. LTD**

**7F, Seoul Square, 416, Hangang-daero ,Jung-gu ,Seoul , Korea**

**Tel. 82-2-3450-8114 Fax. 82-2-3450-8178, www.dongbusteel.com**

4. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2): **Not Applicable**

5. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V: **System 2+**

6. In case of the declaration of performance concerning a construction product covered by a harmonised standard: **EN10346 : 2015**

Notified factory production control certification body No. (**Korea Standard Association and Notified body number : KAB-QC-30(2000-03-11)**) 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. (**QMS-3305(KS Q ISO 9001:2015/ISO 9001:2015)**)

7. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued: **Not Applicable**

### 8. Declared performance

Essential Characteristics		Performance			Harmonized technical specification
Tolerance on dimension and Shape		EN10143			EN10346:2015
Mechanical property		Yield Strength Re(Mpa)	Tensile Strength Rm(Mpa)	Elongation %	
Cold forming Quality	DX51D	-	Max. 500	Min. 22	
	DX52D	Max. 300	Max. 420	Min. 26	
	DX53D	Max. 260	Max. 380	Min. 30	
	DX54D	Max. 220	Max. 350	Min. 36	
Structural Quality	S220GD	Min. 220	Min. 300	Min. 20	
	S250GD	Min. 250	Min. 330	Min. 19	
	S280GD	Min. 280	Min. 360	Min. 18	
	S320GD	Min. 320	Min. 390	Min. 17	
	S350GD	Min. 350	Min. 420	Min. 16	
	S550GD	Min. 550	Min. 550	-	

Durability (Chemical composition)	C% Max	0.12 / 0.18(DX51D)	S% Max	0.045
	Si% Max	0.50	Ti% Max	0.30
	Mn% Max	0.60 / 1.20(DX51D)		
	P% Max	0.10 / 0.12(DX51D)		
Minimum Recommended inside Bend Radius	Grade	Angle of Bend	Diameter of mandrel in terms of test piece thickness(t)	
	DX51D, DX52D, DX53D, DX54D	180	0t	
	S220GD, S250GD, S280GD, S320GD	180	2t	
	S350GD, S550GD	180	3t	
Impact Test(J)	Test equipment	Conditions		
	Impact strain tester	Diameter ≥ 12mm		
		Weight ≥ 1kg		
		Height ≥ 300mm		
		More than one		
		Uncoated layer Ø5mm or less		
Weldability(CEV)	Not Applicable			

EN10346:2015  
(The adhesion of the coating shall be tested by using an appropriate method)

9. Appropriate Technical Documentation and/or Specific Technical Documentation : **Not applicable**

The performance of the product identified above is in conformity with the set of declared performances/s. This declaration of performance is issued under sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by :

DAE WOO, LEE

(Quality Assurance Team General Manager)

