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BQB

ENTERPRISE STANDARD OF

BAOSHAN IRON AND STEEL CO., LTD

Q/BQB 313-2019

Replacing Q/BQB 313-2018

**Continuously-hot-rolled steel sheets and strips for
building structures**

建筑结构用热连轧钢板及钢带

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Main Technical Indicators and Test Methods

(Public Statement)

1 Chemical Compositions

Table 2

Designation	Chemical compositions ^a (mass fraction) %					
	C	Si	Mn	P	S	Ceq
SN400A	≤0.24	—	—	≤0.025	≤0.025	—
SN400B	≤0.20	≤0.35	0.60~1.50	≤0.025	≤0.015	≤0.36
SN490B	≤0.18	≤0.55	≤1.65	≤0.025	≤0.015	≤0.44

^a Other alloy elements can be added as required.

Table 3

Designation	Chemical compositions (mass fraction) %									
	C	Si	Mn	P	S	Cu	Ni	Cr	Mo	Pcm
B490RNQB	≤0.15	0.15~ 0.55	≤1.60	≤0.030	≤0.015	0.30~ 0.50	0.05~ 0.30	0.45~ 0.75	0.30~ 0.90	≤0.27

2 Mechanical and Process Properties

Table 8

Designation	Nominal thickness mm	Tensile test ^a				V-shaped impact test ^a	
		L ₀ =200mm, b=40mm				Test temperature ℃	Impact absorbance energy KV ₂ , J
		Upper yield strength ^b ReH / MPa	Tensile strength R _m / MPa	Yield ratio ≤	Elongation after break % ≥		
SN400A	6~16	≥235	400~510	—	17	—	—
	>16				21		
SN400B	6~<12	≥235	400~510	—	18	0	27
	12~16	235~355		0.80	18		
	>16				22		
SN490B	6~<12	≥325	490~610	—	17	0	27
	12~16	325~445		0.80	17		
	>16				21		

^a The tensile test takes transverse specimen; while the impact test takes longitudinal specimen.

^b When the yield phenomenon is not obvious, adopt R_{p0.2}.

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