

### Fine-grain structural steels, normalised rolled BS1449 50EE steel plate

50EE steel plate, under BS1449 standard 50EE steel plate, under BS1449 standard, we can regard 50EE steel plate as Fine-grain structural steels, normalised rolled steels.

50EE steel plate is one mainly of Fine-grain structural steels, normalised rolled, The normalized rolled fine-grain structural steel 50EE is characterized by a minimum yield strength of 355 MPa, by good weldability and high resistance to brittle fracture, which is same with DIN:TStE355 and EN:S355NL steel.

50EE BS1449 MATERIAL# 1.0456	Comparison of steel grades	
	UNE36081	AE 355 KT
	DIN17102	T StE 355
	UN	Fe E 355 KT N
	NFA36 201	E355FP
	EN 10111	S355NL

Chemical analysis -% by mass\*

Chemical elements	C max	Si max	Mn max	P max	S max.	Cu max	Cr max	Ni max	V max	Nb max	Al min
%,by mass	0.18	0.50	0.90-1.65	0.025	0.020	0.55	0.30	0.50	0.12	0.05	0.02

Mechanical properties

thickness	Yield Strength ReH[N/mm <sup>2</sup> ] transv.min.	TensileStrength Rm[N/mm <sup>2</sup> ]tran sv.	Fracture Elongation[%]transv. min.	Notch Impact Energy1)Ch Vcomplete samplelongitud. min [J]	
t ≤ 16mm t > 16mm	355 345			+20	KV 40J
t < 3mm t ≥ 3mm		470-630		0	KV 34J
Up to 1.5mm 1.51-2.00mm 2.01-2.50mm 2.51-2.99mm ≥ 3mm			22	-10	KV 30J
				-20	KV 27J
				-30	KV 23J
				-40	KV 20J
				-50	KV 16J

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Tel:0086-371-86151527

E-mail:bb@bebonchina.com

Fax: 0086-371-86011881

MSN:bebonchina@hotmail.com

Skype: bebonchina

Web:http://www.shipbuilding-steel.com

Oficina Dir: 2801 B# International enterprise center Zhengzhou city in China.