

Under EN10111 standard, MATERIAL# 1.0491 **TStE285 steel plate/sheet** Main Application: Used in manufacturing ship hull, maritime **oil extraction drilling platform**, platform tube junction and other structural components.

<b>S275NL</b>  <b>EN 10111 MATERIAL#</b> <b>1.0491</b>	<b>Comparison of steel grades</b>	
	UNE36081	<b>AE 285 KT</b>
	DIN17102	<b>T StE 285</b>
	UN	<b>Fe E 275 KT N</b>
	BS4360	<b>43 EE</b>

**TStE285 steel plate/sheet Chemical analysis -% by mass\***

Chemical elements	C	Si	Mn	P	S	Cu	Cr	Ni	V	Nb	Al
	max	max	max	max	max.	max	max	max	max	max	min
<b>%,by mass</b>	<b>0.16</b>	<b>0.40</b>	<b>0.50-1.50</b>	<b>0.025</b>	<b>0.020</b>	<b>0.55</b>	<b>0.30</b>	<b>0.30</b>	<b>0.05</b>	<b>0.05</b>	<b>0.02</b>

**TStE285 steel plate/sheet Mechanical properties**

thickness	Yield Strength $R_{eH}$ [N/mm <sup>2</sup> ] transv.min.	Tensile Strength $R_m$ [N/mm <sup>2</sup> ]transv.	Fracture Elongation[%]transv. min.	Notch Impact Energy $1)Ch V$ complete sample longitud. min [J]
$t \leq 16mm$	<b>275</b>			
$t > 16mm$	<b>265</b>			<b>+20 KV 40J</b>
$t < 3mm$		<b>370-510</b>		<b>0 KV 34J</b>
$t \geq 3mm$				<b>-10 KV 30J</b>
Up to 1.5mm			<b>24</b>	<b>-20 KV 27J</b>
1.51-2.00m				<b>-30 KV 23J</b>
2.01-2.50m				<b>-40 KV 20J</b>
2.51-2.99m				<b>-50 KV 16J</b>

**BEBON international** — We are specialized in hot rolled steel plate/coil.

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<b>3</b>				
<b>≥ 3mm</b>				

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