

JIS G3444 STK400

- ALLLAND Production Standards Overview



Definition and Applications

1. Definition

JIS G3444 STK400 steel pipe is a carbon steel structural pipe that complies with Japanese standards and is specifically designed for general engineering and construction applications.

This steel pipe conforms to the JIS G3444 standard for carbon steel structural pipes and is widely used in building frames, scaffolding systems, bridges, foundations, and various steel structure projects.

STK400 is one of the most commonly used grades in the JIS G3444 system, offering a combination of good strength, weldability, and cost-effectiveness.

2. ALLLAND JIS G3444 STK400 Steel Pipe Dimensions

Item	Specification
Standard	JIS G3444
Grade	STK400
Product Type	Carbon Steel Structural Pipe
Manufacturing Process	ERW / Seamless
Material	Carbon Steel
Outside Diameter	21.7–1016 mm
Wall Thickness	2.0–22 mm
Length	3–18 m
Surface Treatment	Black, Galvanized, FBE, 3PE/3LPE

3. Application

JIS G3444 STK400 Steel Pipes are widely used for structural applications where strength, durability, and weldability are required. They are commonly applied in construction frameworks, steel structures, scaffolding systems, towers, bridges, machinery supports, and civil engineering projects. With reliable mechanical properties and excellent fabrication performance, STK400 pipes provide a stable solution for both general structural and industrial applications.

Critical Tolerances

Item	Tolerance (Typical)
Outside Diameter	±1% (for OD ≥ 50 mm), ±0.5 mm (for OD < 50 mm)
Wall Thickness	±10%
Length	+50 mm / -0 mm (standard length)
Straightness	≤0.15% of total pipe length
Ovality	Controlled within OD tolerance

Note: Specific tolerances may vary depending on pipe size, manufacturing method, and customer requirements.

Chemical and Mechanical Properties

1. Chemical Composition

JIS G3444 STK400 Steel Pipe is a carbon steel structural tube with controlled chemical composition to ensure good weldability, formability, and structural performance.

Grade	C (Max)	Si	Mn	P (Max)	S (Max)
STK400	0.25%	—	—	0.040%	0.040%

2. Mechanical Properties

STK400 provides reliable strength and toughness for general structural applications. The material is suitable for welding, fabrication, and load-bearing structures.

Grade	Tensile Strength (MPa)	Yield Strength (MPa)	Elongation (%)
STK400	≥400	≥235	≥23

Note: Mechanical properties may vary depending on pipe size and manufacturing process. All ALLLAND JIS G3444 STK400 Steel Pipes undergo strict quality inspections to ensure compliance with specified standards and customer requirements.



Dimension Specifications Table

Outside Diameter (mm)	Wall Thickness (mm)	Approx. Weight (kg/m)
21.7	2.0	1.00
27.2	2.0	1.27
34.0	2.3	1.85
42.7	2.3	2.34
48.6	2.3	2.68
48.6	3.2	3.65
60.5	2.3	3.35
60.5	3.2	4.56
76.3	2.8	5.11
76.3	3.2	5.80
89.1	3.2	6.94
101.6	3.2	7.96
101.6	4.0	9.87
114.3	3.2	8.99
114.3	4.5	12.50
139.8	3.6	12.10
139.8	4.5	15.00
165.2	4.5	17.90
165.2	6.0	23.50
216.3	6.0	31.20
216.3	8.0	41.30
267.4	6.0	38.90
267.4	8.0	51.60
318.5	6.0	46.50
318.5	8.0	61.60
355.6	8.0	69.00
406.4	9.0	88.00
508.0	10.0	123.00
609.6	12.0	176.00
711.0	12.0	206.00
812.8	14.0	278.00
914.4	16.0	357.00
1016.0	16.0	398.00

Available Size Range

- **Outside Diameter (OD):** 21.7–1016 mm
- **Wall Thickness (WT):** 2.0–22 mm
- **Length:** 5.8 m, 6 m, 12 m or customized

Note: Dimensions above are typical JIS G3444 STK400 sizes. ALLLAND can supply customized diameters, wall thicknesses, and lengths according to project requirements.

Surface Options

Surface	Application
Black Steel Pipe	General structural use
Hot Dip Galvanized	Outdoor structures, corrosion protection
FBE Coated	Underground applications
3PE / 3LPE Coated	Long-term corrosion resistance

ALLLAND JIS G3444 STK400 Product Images



The image shows steel pipes actually produced by our company