



JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS G 3471 : 2012

(CLTA/JSA)

Corrugated steel pipe

ICS 23.040.10:77.140.75

Reference number : JIS G 3471 : 2012 (E)

PROTECTED BY COPYRIGHT

G 3471 : 2012

Date of Establishment: 1977-01-01

Date of Revision: 2012-11-20

Date of Public Notice in Official Gazette: 2012-11-20

Investigated by: Japanese Industrial Standards Committee
Standards Board
Technical Committee on Iron and Steel

JIS G 3471 : 2012, First English edition published in 2013-04

Translated and published by: Japanese Standards Association
4-1-24, Akasaka, Minato-ku, Tokyo, 107-8440 JAPAN

In the event of any doubts arising as to the contents,
the original JIS is to be the final authority.

© JSA 2013

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

Printed in Japan

NH/SW

PROTECTED BY COPYRIGHT

Contents

		Page
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Classification and symbols	2
5	Material and parts	3
5.1	Sections	3
5.2	Bolts, nuts and washers for joint	3
6	Standard dimensions and basic constitution of pipe	4
6.1	General	4
6.2	Standard dimensions and basic constitution of circular type 1	5
6.3	Standard dimensions and basic constitution of circular type 2	5
6.4	Standard dimensions and basic constitution of elongation type	7
6.5	Standard dimensions and basic constitution of pipe arch type	8
6.6	Standard dimensions and basic constitution of arch type	9
6.7	Standard dimensions and basic constitution of ES culvert	9
Annex A (normative) Bolts, nuts and washers for joint used for assembling of corrugated steel pipes		11

Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee according to the proposal for revision of Japanese Industrial Standard submitted by Corrugated Liner Technical Association (CLTA)/Japanese Standards Association (JSA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law applicable to the case of revision by the provision of Article 14.

Consequently JIS G 3471:1977 has been partially replaced with JIS G 3470:2012 and this Standard.

This JIS document is protected by the Copyright Law.

Attention is drawn to the possibility that some parts of this Standard may conflict with a patent right, application for a patent after opening to the public or utility model right. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying the patent right, application for a patent after opening to the public or the utility model right.

Corrugated steel pipe

1 Scope

This Japanese Industrial Standard specifies the sectional shape, dimensions and constitution of corrugated steel pipes (hereafter referred to as the "pipes") used for water channels, passage ways and other various kinds of civil work or building constructions, which are assembled on-site with corrugated steel sections (hereafter referred to as the "sections") specified in JIS G 3470.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

JIS B 1051 *Mechanical properties of fasteners made of carbon steel and alloy steel—Part 1: Bolts, screws and studs*

JIS B 1052-2 *Mechanical properties of fasteners—Part 2: Nuts with specified proof load values—Coarse thread*

JIS B 1180 *Hexagon head bolts and hexagon head screws*

JIS B 1256 *Plain washers*

JIS G 3470 *Corrugated steel section*

JIS H 8610 *Electroplated coatings of zinc on iron or steel*

3 Terms and definitions

For the purpose of this Standard, the terms and definitions given in JIS G 3470 and the following apply.

3.1 corrugated steel pipes

pipes assembled with corrugated steel sections into circular type, elongation type, pipe arch type, arch type and large section culverts (hereafter referred to as "ES culverts") at the construction sites of water channels, passage ways, and other various civil work and building structures

3.2 circular type

pipes with circular section that are most generally used, and classified into type 1 and type 2, the former being composed of two sections, and the latter, of four or more sections

3.3 elongation type

type of pipe prepared by elongating the diameter of a circular type 2 pipe in the longitudinal direction by about 5 %