Chinastandards.org

ICS 91.140.40
CCS P 46

CJJ

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

CJJ/T 104-2014

Replacing CJJ 104-2005

Technical specification for directly buried steam heating pipeline in city

城镇供热直埋蒸汽管道技术规程

(English Translation)

Issued on: April 16, 2014 **Implemented on: October 1, 2014**

Issued by: Ministry of Housing and Urban-Rural Development of the People's Republic of China

Preview: page 1 of 5 shown, 61 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/cjj-t-104-2014

Chinastandards.org

Table of Contents

1 General provisions
2 Terms
2.0.1 Directly buried steam pipe
2.0.2 Working pipe
2.0.3 Outer protective pipe
2.0.4 Antiseptic layer
2.0.5 Heat preservation pipe patch
2.0.6 Casing drain
2.0.7 Inside fixed support
2.0.8 Outside fixed support
2.0.9 Inside and outside fixed support
2.0.10 Radiation heat insulation layer
2.0.11 Vacuumize
3 Arrangement and installation of pipes
3.1 Arrangement of pipes
3.2 Installation method
3.3 Material of pipes
4 Accessories of pipelines
4.1 Accessories and facilities of pipelines
4.2 Connecting of pipe fittings and pipes
5 Calculation of pipe strength and stress
5.1 Working pipe
5.2 Outer protective pipe
6 Insulation construction and insulating layer
6.1 General requirements
6.2 Insulation construction
6.3 Vacuum insulating layer
6.4 Insulation calculation
7 Outer protective pipe and anticorrosion
7.1 General requirements
7.2 Stiffness and stability of outer protective pipe
7.3 Anticorrosion of outer protective pipe

Preview: page 2 of 5 shown, 61 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/cjj-t-104-2014

Chinastandards.org

8 Construction and acceptance
8.1 General requirements
8.2 Pipe installation
8.3 Heat preservation pipe patch
8.4 Vacuum system installation
8.5 Pressure test, purging and trial operation
8.6 Construction and acceptance
9 Operation management
9.1 General requirements
9.2 Preparation before operation
9.3 Warming pipe
9.4 Operational maintenance
9.5 Operational stop

1 Foreword

CJJ/T 104-2014 was issued by Ministry of Housing and Urban-Rural Development of the People's Republic of China on 16 April 2014 and has been in force since 1 October 2014.

It replaces the earlier edition CJJ 104-2005.

1.0.1
This specification is developed to standardize the design, construction, acceptance and operational maintenance of directly buried steam heating pipeline in city, unify technical requirements, ensure project quality, and achieve economic rationality, safety and applicability.

1.0.2
This specification is applicable to the design, construction, acceptance and operational maintenance of directly-buried steel outer protective steam heat preservation pipes with working pressure less than or equal to 2.5 MPa and temperature less than or equal to 350°C.

1.0.3
In addition to this specification, the directly buried steam pipe project in seismic, collapsible loess, expansive soil and other regions shall also meet the relevant provisions of the current national standards GB 50032 Code for seismic design of outdoor water supply sewerage gas and heating engineering, GB 50025 Code for building construction in collapsible loess regions and GB 50112 Technical code for building in expansive soil regions.

Preview: page 3 of 5 shown, 61 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/cjj-t-104-2014

1.0.4
The design, construction, acceptance and operational maintenance of directly buried steam pipes shall comply with the current national standards in addition to this specification.

3.1.1 The arrangement of directly buried steam pipe shall meet the relevant provisions of the current professional standard CJJ 34 Design code for city heating network.

2 Scope Preview

This standard applies to the working pressure is less than or equal to 2.5MPa, the temperature is less than or equal to 350°C, directly buried laying of steel insulation steam insulation pipe design, construction, acceptance and operation and maintenance.

CJJ/T 104-2014 falls under ICS 91.140.40, in the field of construction materials and building.

This catalogue holds 59 other CJJ/T standards in that field.

In this catalogue, CJJ/T standards carry edition years from 1993 to 2023.

3 About this standard

Issued by: Ministry of Housing and Urban-Rural Development of the People's Republic of China

English translation: about 61 pages

Chinese original: about 91,927 characters

Supersedes the earlier edition CJJ 104-2005.

4 Related standards

Standards on related subjects:

GB/T 21087-2020 - Energy recovery ventilators for outdoor air handling

CJ/T 395-2012 - Gas-fired heating and hot water condensing combi-boilers

GB 25034-2010 - Gas-fired heating and hot water combi-boilers

CJJ/T 291-2019 - Chinese standard

CJ/T 246-2018 - Preformed directly buried steam insulating pipes and fittings for urban heating

CJ/T 179-2018 - Self-operated flow control valve

Preview: page 4 of 5 shown, 61 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/cjj-t-104-2014

Chinastandards.org

5 Classification and status

International classification (ICS): 91.140.40

Chinese Standard Classification (CCS): P 46

Prefix CJJ/T: recommended standard.

Preview: page 5 of 5 shown, 61 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/cjj-t-104-2014