
Cevi za daljinsko ogrevanje - Predizolirani enocevni ali dvocevni sistemi za vkopana vročevodna omrežja - 1. del: Spojeni cevni sestavi in toplotna izolacija za vročevodna in hladnovodna omrežja vezane kovinske cevi v skladu z EN 13941-1

District heating pipes - Bonded single and twin pipe systems for buried hot and coldwater networks - Part 1: Joint casing assemblies and thermal insulation for hot and cold-water networks with metal service pipes in accordance with EN 13941-series

Fernwärmerohre - Einzel- und Doppelrohr-Verbundsysteme für erdverlegte Fernwärme- und Fernkältenetze - Teil 1: Mantelrohrverbindungen und Wärmedämmung für Fernwärme- und Fernkältenetze mit metallischen Versorgungsleitungen nach EN 13941-1

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Tuyaux de chauffage urbain - Systèmes bloqués de tuyaux monotubes et bitubes pour les réseaux d'eau chaude et froide enterrés - Partie 1 : Kits de protection et d'isolation des jonctions de tubes pour les réseaux d'eau chaude et froide avec tubes de service en acier conformes à la série EN 13941

Ta slovenski standard je istoveten z: prEN 489-1

ICS:

23.040.07	Cevovodi za daljinsko ogrevanje in njihovi deli	Pipeline and its parts for district heat
23.040.60	Prirobnice, oglavki in spojni elementi	Flanges, couplings and joints

oSIST prEN 489-1:2026

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EUROPEAN STANDARD
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DRAFT
prEN 489-1

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ICS 23.040.07; 23.040.60

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English Version

District heating pipes - Bonded single and twin pipe
systems for buried hot and coldwater networks - Part 1:
Joint casing assemblies and thermal insulation for hot and
cold-water networks with metal service pipes in
accordance with EN 13941-series.

Tuyaux de chauffage urbain - Systèmes bloqués de
tuyaux monotubes et bitubes pour les réseaux d'eau
chaude et froide enterrés - Partie 1 : Kits de protection
et d'isolation des jonctions de tubes pour les réseaux
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conformes à la série EN 13941

Fernwärmerohre - Einzel- und Doppelrohr-
Verbundsysteme für erdverlegte Fernwärme- und
Fernkältenetze - Teil 1: Mantelrohrverbindungen und
Wärmedämmung für Fernwärme- und Fernkältenetze
mit metallischen Versorgungsleitungen nach EN
13941-1

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 107.

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prEN 489-1 (E)**European foreword**

This document (prEN489-1:2026) has been prepared by Technical Committee CEN/TC"107", the secretariat of which is held by DS.

This document is currently submitted to the CEN Enquiry.

This document will supersede [EN 489-1:2019 \[1\]](#).

In comparison with the previous edition, the following technical modifications have been made:

- The scope was changed to cover also flexible pipe systems according to [EN 15632-4 \[2\]](#) with metal service pipes;
- editorial adjustments and updates to references throughout the document;
- minimum requirement and evidence of the degree of crosslinking in crosslinked PE-materials was added in [4.3.1](#);
- clause [4.3.3](#) has been reworded to make it clearer;
- clarification of witness during the preparation of the test specimen in [5.1](#);
- the permissible loss of sand in the sandbox test has been reduced in [5.2.5](#);
- determination of the dimensions of the joint casings in the SCR test in [5.4](#);
- joint casing system 1.5 was added to [Annex A](#);
- Schematic drawings of joint casing systems have been newly included in [Annex B](#);
- additions to the inspection of joint casing systems in [Annex C](#).

Introduction

The first edition of EN 489 was approved in 1994 and updated in 2003, 2009 and 2019.

With the 2019 edition, the number of the standard was changed from EN 489 to EN 489-1 in order to include EN 489-2 for joint casing systems for flexible pipe systems in the same series of standards.

This specification is part of the series of standards for bonded systems using polyurethane foam thermal insulation applied to bond to a steel service pipe and a polyethylene casing.

For information on the minimum expected thermal life with operation at various temperatures with respect to PUR foam performance see [FprCEN/TR 18341 \[3\]](#).

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