

# Uponor Decibel, soil & waste pipe system with measured sound values

## Holder/Issued to

### Uponor Infra Oy

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Organisation number: FI25001763

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## Product description

Uponor Decibel, multilayer pipes with three layers. The inner and outer layers consist of PP (polypropylene) and intermediate layer of mineral reinforced PP. Fittings are made of mineral reinforced PP. Joining of pipes and fittings are done with factory installed sealing rings.

The approval covers pipes and fittings in dimensions DN 50, DN 75, DN 110 and DN 160.

## Intended use

Pipes and fittings intended for sewage systems inside building for normal household wastewater and rainwater.

Application area B refers to internal and external installation, according to standard EN 1451-1.

Waste water temperature may momentarily be max. 95°C.

## Trade name

Uponor Decibel, soil & waste pipe system.

## Approval

The products satisfy the requirements set forth in chapter 8, 4 § 2 and 3 PBL, in respect to and under conditions stated in this type approval, and are therefore approved in accordance with the provisions of the following sections of Boverket Building Regulations (BBR), issued by the National Board of Housing, Building and Planning.

Reaction to fire, class E according to SS-EN 13501-1*	5:231
Waste water installations	6:641, 1 <sup>st</sup> paragraph and 2 <sup>nd</sup> paragraph, last sentence
Surface water installations	6:642
Design	6:644, 1 <sup>st</sup> sentence

\* Valid for material with thickness according to classification report 9P02670-2rev1.

## Associated documents

Installation instruction "Uponor inomhusavloppssystem", 6 pages, dated by RISE Certification 2016-06-03.

## Control

The factory production control (FPC) is monitored by an independent inspection body.

Control agreement: Ref no. 210-13-0175

Inspection body: Rise Research Institutes of Sweden AB

When the building proprietor performs inspection at the building site markings shall be checked to ensure that the correct products have been supplied and that they are used in accordance with the conditions in this type approval and associated documents. Further the product shall be accompanied by a manufacturer's assurance, certifying that the product has been manufactured in accordance with the documents on which this type approval is based.

## Manufacturing places

Production control includes the following places:

Uponor Infra Oy, Nastola, Finland

Atplast Oy, Kausala, Finland

## Marking

The products are to be marked at the factory. The marking consists of a text on every product/packing/documentation supplied and includes:

### Products are marked with:

Holder/Distributor	Uponor
Product type designation	Decibel XX
Material	PP-MD
Application area	B
Dimension (mm)	XX
Wall thickness pipe (mm)	XX
Nominal angle of fitting	XX°
Reaction to fire	E
Consecutive date of production	<i>date, year/month</i>

### Packings are marked with:

Type approval number	SC0091-16
Boverket's registered trade mark	†
RISE Accreditation number	1002
Certification body and Inspection body	RISE

## Basis for approval

Reports no. 6F026473, 6F005876, 6F005876-1, 8F0011689 and P02670-2rev1 from RISE Research Institutes of Sweden.

Report no. P-BA 158/2015e from Fraunhofer IBP, Germany.

Report no. 20-18818, 20-111956 och 21-151065 from RISE Research Institutes of Sweden.

## Comments

Products are tested according to standard SS-EN 1451-1.

Sound level of dimension DN 110 where the system is fixed with sound absorbing tube carrier model Bismat 1000, tested according to standard SS-EN 14366:2004.				
Water flow rate	0,5 l/s	1,0 l/s	2,0 l/s	4,0 l/s
Structure-borne sound $L_{SC, A}$	$\leq 10$ dB(A)	$\leq 10$ dB(A)	$\leq 10$ dB(A)	14 dB(A)

This type approval supersedes the previous type approval with the same number dated 2019-08-16, with project number 9P03234.

## Validity

Valid through 2026-10-31.

Validity of this type approval can be verified on our website.

The validity of this type approval expires when the type approved products with the intended use according to this type approval shall be CE-marked according to the Construction Products Regulation (EU) 305/2011.

Ingvar Pettersson

*This is a translation from the Swedish original document. In the event of any dispute as to its content, the Swedish text shall take precedence*