Reference: 2406106-01
Order sheet: 22402958

TEST REPORT n. 221.I.2407.746.EN.02

AT THE REQUEST OF:

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CONCERNING:

SAMPLE:	**SHOWER TRAY**
TEST:	**SEVERAL TEST**

SAMPLES RECEPTION DATE:	**14/06/2024**
TESTING STARTING DATE:	**17/06/2024**
TESTING FINISHING DATE:	**28/06/2024**

Document digitally signed by legal electronic signature.

THIS REPORT CONSISTS OF 9 CONSECUTIVELY NUMBERED PAGES.

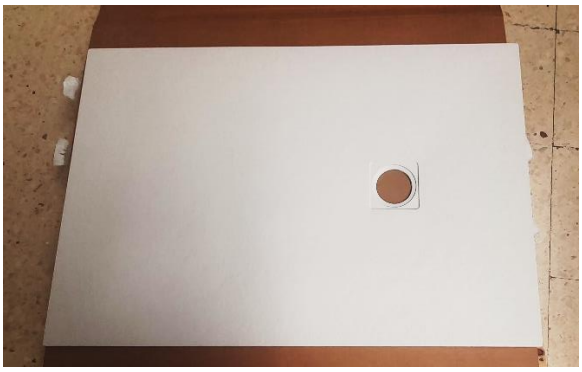
The test samples, the subject of this report, will remain at AIDIMME for a period of three months starting from the report issue date. That period having expired, it will be destroyed. Hence, any claim must be made within this time limit.

1. DESCRIPTION AND IDENTIFICATION OF THE SAMPLE. INSPECTION BEFORE TESTING

The sample is a shower tray, with the following identification according to the client information:

MODEL: ZONE
CODE: ZN120080BLEQZ
DESCRIPTION: SHOWER TRAY ZONE 120x80 WHITE
(Sample referenced in AIDIMME as 2406106-01)

Appearance of the sample



Sample AIDIMME 2406106-01

Detail of sample outlet hole

2. ORIGIN OF THE SAMPLE

Sample supplied by the client.

3. TESTS REQUESTED

Fulfilment of specifications for CLASS 1 stated in standard EN 14527:2016+A1:2019 "*Shower trays for domestic purposes*"

4. STANDARD TEST METHOD

The test methods are carried out according to following standards:

Connecting dimensions	EN 251:2014
Cleanability	EN 14527:2016+A1:2019
Durability	EN 14527:2016+A1:2019

5. DESCRIPTION OF THE TEST METHOD

CLEANABILITY
(EN 14527:2016+A1:2019, part 5.2)

Appearance of surface
When a shower tray is inspected, the surfaces intended to come into contact with water shall be visibly smooth non-absorbent and free from inaccessible corners that would impair cleanability.
Surfaces with cracks, chips, crazing and other similar defects are assessed as defects in flatness.

Drainage of water
Shower trays shall have at least one waste outlet hole. The dimensions of the waste outlet hole shall comply with the requirements of EN 251. Other dimensions are permissible, if the manufacturer provides or recommends a suitable waste fitting.

All water shall empty from the shower tray unless prevented by surface tension.

DURABILITY
(EN 14527:2016+A1:2019, part 5.3)

Stability of bottom
The test consists of applying a load of 100 kg in the geometric centre of shower tray and maintaining it during 10 minutes.

After this time verify the appearance of surface and surface defects.

The surface shall not be affected and there shall be no permanent distortion or other defects that prevent the fulfilment of drainage of water requirements, after the application of the load according to standard EN 14527:2016+A1:2019 “Shower trays for domestic purposes”

Resistance to chemical products
The test consists of determining the resistance of the finishes to certain cleaning products usually used in the bathroom, such as:

- Acetic acid (10%)
- Sodium hydroxide (5%)
- Ethanol (70%)
- Bleach
- Methylene blue (1%)

Some drops of each product are put on the sample surface and are kept, covered with watch glasses, for 2 hours.
Once finished the exposure time, the product is eliminated by a specific washing process. After an hour, the surface is examined, indicating whether or not permanent stains appear.

The surface shall not be affected by the chemical agents indicated previously, according to standard EN 14527:2016+A1:2019 “Shower trays for domestic purposes”

Resistance to temperature changes
The sample is tested by the following cycle of water supply with the following temperatures and flow rates:

- (90 ± 1) l hot water at (75 ± 2)ºC , flow (0,15 ± 0,01) l/s
- (90 ± 1) l cold water at (12 ± 3)ºC , flow (0,15 ± 0,01) l/s

The process is repeated 100 times and the presence of surface defects is verified.

The surface shall not be affected and there shall be no permanent distortion or other defects that prevent the cleaning aptitude, after the resistance to temperature changes test, according to standard EN 14527:2016+A1:2019 “Shower trays for domestic purposes”

CLASSIFICATION
The standard EN 14527:2016+A1:2019 “Shower trays for domestic purposes” stablishes two classifications for this kind of products:

Products belonging to CLASS 1 fulfil the following specifications:

- Cleanability
- Drainage of water

And the requirements stated on the standard, for the following tests:

- Durability
- Stability of bottom
- Resistance against chemicals and staining agents
- Resistance to temperature changes

Characteristics and test methods for CLASS 1 products

Characteristics to be tested	Assessment method according to subclauses of this standard	Number of samples	Compliance criteria
Appearance of surface	5.2.1	1	5.2.1
Drainage of water	5.2.2	1	5.2.2
Stability of bottom	8.1	1	5.3.2
Resistance against chemicals and staining agents	8.2	1	5.3.3.1
Requirements of shower trays made from enamelled steel and cast iron	5.3.3.2	1	5.3.3.2
Resistance to temperature changes	8.3	1	5.3.4

Products belonging to CLASS 2 fulfil the following specifications:

- Cleanability and generalities about the materials
- Drainage of water
- Durability

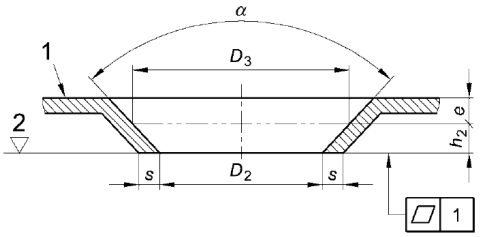
Characteristics to be tested	Assessment method according to subclauses of this standard	Number of samples	Compliance criteria
Appearance of surface	6.2.1	1	6.2.1
Drainage of water	6.2.2	1	6.2.2
Durability	6.3	1	6.3

According to standard EN 14527:2016+A1:2019 part 6.3; CLASS 2 products are considered durable if they are easily cleanable during their expected useful life, when normal cleaning and maintenance is carried out.

CONNECTING DIMENSIONS. SHOWER TRAYS (EN 251:2014)

The waste outlet hole connecting of shower tray is measured according to standard EN 251:2014 “Shower trays*. Connecting dimensions*”:

The following connecting dimensions are measured:



Legend
1 Bottom of the shower tray around the waste outlet hole
2 Plan of the waste outlet hole

Waste outlet hole dimensions

Definition	**Symbol**	**Dimensions (mm)**
Diameter of waste outlet hole. Nominal 52 (mm)	D_2	$52\ ^{+3}_{-2}$
Diameter of waste outlet hole. Nominal 90 (mm)	D_2	$90\ ^{+3}_{-2}$
Contact diameter of control ring (mm) Nominal 52	D_3	70
Contact diameter of control ring (mm) Nominal 90	D_3	115
The angle of the contact cone (º)	α	≤ 120
Adjustment height or fixing of waste outlet hole (mm) Nominal 52	h_2	6 a 16
Adjustment height or fixing of waste outlet hole (mm) Nominal 90	h_2	6 a 25
Sealing surface for the waste outlet accessory (mm)	s	≥ 3
Distance from the contact diameter of control ring and the bottom of the shower tray around the waste outlet hole (mm)	e	≥ 2

According to standard EN 14527:2016+A1:2019 “*Shower trays for domestic purposes”*, the dimensions of the waste outlet hole shall comply with the requirements of standard EN 251:2014. Other dimensions are permissible, if the manufacturer provides or recommends a suitable waste fitting.

6. TEST RESULTS

MODEL: ZONE
CODE: ZN120080BLEQZ
DESCRIPTION: SHOWER TRAY ZONE 120x80 WHITE

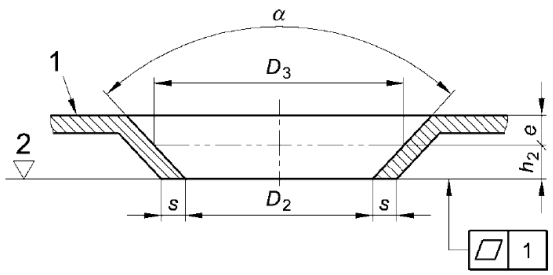
AIDIMME 2406106-01

TESTS	METHOD	RESULT
Cleanability. Appareance of surface (assessment)	EN 14527:2016+A1:2019	Correct
Drainage of water (assessment)	EN 14527:2016+A1:2019	Correct
Stability of bottom (assessment)	EN 14527:2016+A1:2019	Correct
Resistance to chemical products (assessment)	EN 14527:2016+A1:2019	Correct
Resistance to temperature changes (assessment)	EN 14527:2016+A1:2019	Without changes Correct

Considering the tests carried out, CLASS 1 can be assigned to the samples, according to standard EN 14527:2016+A1:2019 “Shower trays for domestic purposes” and its designation correspond to the following system:

EN 14527- CL1

CONNECTING DIMENSIONS



Legend

1 Bottom of the shower tray around the waste outlet hole
2 Plan of the waste outlet hole

Waste outlet hole dimensions

Definition	**Symbol**	**Result**
Diameter of waste outlet hole. Nominal 90 (mm)	D_2	94
Contact diameter of control ring (mm) Nominal 90	D_3	115
The angle of the contact cone (º)	α	Without conicity
Adjustment height or fixing of waste outlet hole (mm) Nominal 90	h_2	10
Sealing surface for the waste outlet accessory (mm)	s	All surface
Distance from the contact diameter of control ring and the bottom of the shower tray around the waste outlet hole (mm)	e	3

The waste outlet hole dimensions are not inside the requirements set out in the standard UNE-EN 251:2014; Shower trays. Connecting dimensions"

However, according to standard EN 14527:2016+A1:2019 "*Shower trays for domestic purposes"*, other dimensions are permissible, if the manufacturer provides or recommends a suitable waste fitting.

The results of the tests apply only to the tested samples.

Date: 04th September, 2024

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