

SANITARY TAPWARE
Technical document
077-09

ECAU rating for drainage devices

Technical Document 077-09 Rev02
01/10/2020

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With over 900 employees, its subsidiaries and networks of national, European and international partners, the CSTB group works for all the stakeholders in the construction sector to advance building quality and safety.

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MODIFICATION HISTORY

Revision no.	Application date	Modifications
00	01/06/2017	<p>Update to the document layout and reference.</p> <p>Content modifications:</p> <ul style="list-style-type: none"> - Some technical changes
01	02/04/2019	<p>Cancels and replaces technical document 077-09_Rev 18</p> <p>Update of technical document according to the new frame:</p> <p><i>"Trame_doc_technique_VF_PC_DT_R3."</i></p> <p>Content modifications:</p> <ul style="list-style-type: none"> - establishment of ECAU rating
02	01/10/2020	Reference to the regulation for use of marks (DT077-00)

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1 Normative support for ECAU rating

1.1 Purpose

The purpose of this chapter is to list the articles of Standard NF EN 274-1 that are taken into account for the ECAU rating in accordance with the regulation for use DT077-00.

1.2 List of the tests involved

The table below lists the articles of Standard NF EN 274-1.

Articles	Title of articles
4	Requirements
4.2	Appearance of visible surfaces
4.2 A	Corrosion resistance test (neutral salt spray test)
4.2 B	Coating adhesion test ("air" thermal shock resistance test)
4.3	Materials (3 temperature variation test under NF EN 274-2)
4.5	Dimensions
4.6	Hydraulic requirements (5 hydraulic requirements under NF EN 274-2)
4.7	Leaktightness
4.7.1	Leaktightness of the drain stop with a plug or valve (6.1 of NF EN 274-2)
4.7.2	Leaktightness of the drainage device (6.2 of NF EN 274-2)
5	Marking

2 ECAU rating

2.1 Foreword

The ECAU rating was created to meet the expectations of market players who require performances that are superior or complementary to that indicated in Standard NF EN 274-1.

For drainage devices the following are required:

- The hydraulic performance level according to the user's needs for washbasin or sink drainage devices with 2 tubs;
- “High flow” hydraulic performance level for bathtub and shower drainage devices.
- Endurance performance to optimise the lifespan of the drainage device
- Reaction to oil of sink drainage devices;

It should be noted, however, that the use of the ECAU rating is voluntary and supplementary to the evaluation of a product that is already certified under Standard NF EN 274-1.

2.2 Purpose

The purpose of this chapter is to establish the dimensional, hydraulic, mechanical and mechanical endurance levels to be met by drainage devices to qualify for the ECAU rating.

2.3 Field of application

This chapter applies to drainage devices subject to Standard NF EN 274-1.

2.4 References to standards

NF EN 274-1: 2002	Drainage devices for sanitary appliances – Part 1: requirements
NF EN 274-2: 2002	Drainage devices for sanitary appliances - Part 2: Test methods
DT077-00	Regulations for use of marks

2.5 ECAU rating principle

The ECAU rating is based on four characteristics:

- hydraulic or flow characteristic, symbolised by the letter “E”;
- comfort characteristic symbolised by the letter “C”;
- acoustic characteristic symbolised by the letter “A”;
- mechanical or wear characteristic, symbolised by the letter “U”.

The ECAU rating is characterised by the association of the letters ECAU, each of which is provided with a class: 1, 2, 3, etc. according to a level of performance or quality.

It can only be assigned to drainage devices:

- compliant with Standard NF EN 274-1. The test procedures are defined in Article 1 of this document.
- having passed the performance tests for the ECAU rating. The test procedures are provided in Article 2.6 below.

2.5.1 Meaning of E

The flow characteristic taken into account is the use flow ‘q’ of the drain device as it is equipped (fittings, etc.).

There are 4 classes for this characteristic. See Article 2.7.1.1.

2.5.2 Meaning of C

The comfort characteristics taken into account are the dimensional and hydraulic performance. There are 2 classes for this characteristic. See Article 2.7.2.1.

	C
Class 0	<ul style="list-style-type: none"> - Dimensional - Hydraulic performance of washbasin or sink drainage devices with 2 tubs
Class 1	<ul style="list-style-type: none"> - Must be C0 - Flow performance of the drainage device for bathtub or shower tray

2.5.3 Meaning of A

The acoustic characteristic shall not be taken into account for this type of product.

2.5.4 Meaning of U

The wear characteristic taken into account is the mechanical characteristic, endurance and, more precisely, the number of operating cycles to which the following are subjected:

- cable-type drainage devices (with a rotary control or push-button);
- “snap” type drainage devices;
- sink drainage devices for the boiling oil test.

There is 1 class for this characteristic. See Article 2.7.4.1.

An application for an ECAU rating implies a class 3 application for endurance tests (U3).

2.6 Performance level for the ECAU rating

2.6.1 Materials

No requirements in addition to those under the NF EN 274-1 Standard.

2.6.2 Dimensions

Modification of certain dimensions under Table 1 and Table 1 of Standard NF EN 274-1 for:

- sink and washbasin drainages with overflow
- bathtub or shower drainages with overflow

Table 1 — Dimensions of drainage stops and overflows

Dimensions	Symbol	NF EN 274-1 values	077-09 value
Outer diameter of circular overflow	th	65 (-0.2/0)	64 to 76
Outer dimensions of the rectangular overflow for sink drainages	a	30 (-0.2/0)	≥ 30
	b	58 (-0.2/0)	≥ 58
	th	36 (-0.2/0)	36 (-0.2/0)
	q	36 (-0.2/0)	36 (-0.2/0)
	c	≤ 30	≥ 27
	d	≤ 58	≥ 48

Table 2 – Siphon dimensions

Dimensions	Symbol	NF EN 274-1 values	077-09 value
Total height of drainage stop with siphon	M	≤ 83	≤ 80
	M	≤ 128	≤ 125
Angle of inclination possible between the horizontal plane of the stop and the vertical axis of the overflow Only applies to “rigid” drainages (brass, for example).	β		(8 ± 5)°

2.6.3 Hydraulic characteristics

2.6.3.1 In addition to Standard NF EN 274-1

Table 3 - Minimum flow rates under Standard NF EN 274-1 are supplemented as follows:

For double sinks or kitchen sinks with two tubs,

- each drainage stop must be tested separately (5 of EN 274-2). They must have the minimum required flow specified in Table 3 of EN 274-1.
- there must be no water level rise through the other tub (cross-feed).

2.6.3.2 High flow

Verification of the flow rate value obtained with class E, see Article 2.7.1.1.

2.6.4 Leaktightness characteristics

No requirements in addition to those under the NF EN 274-1 Standard.

2.6.5 Marking

In addition to Article 5 of Standard NF EN274-1, see also Appendix 2, Part 1, Chapter 1.3 of the NF 077 reference system.

2.6.6 Mechanical endurance characteristics

To verify the performance of the drainage devices, it was considered necessary to add the following tests:

- Endurance of cable-type drainage devices (with rotary control and push button)
- Endurance of “snap” type drainage devices

2.6.6.1 Endurance of cable-type drainage devices (with rotary control and push button)

2.6.6.1.1 Test principle

The test consists of subjecting the mobile control equipment to a fixed number of movements, which are timed, and a specific water level.

2.6.6.1.2 Equipment

The test device consists of the following components:

- a supply circuit each including a pump or any similar device for supplying the test tub with a cold water at a temperature ≤ 30 °C;
- an automatic machine for performing the cycle described below:
 - torque in both directions of rotation of (1 ± 0.5) N/m,
 - the rotational speed of the machine is (60 ± 10)°/s,
 - the (test) stroke must be (90 ± 5)% of the total movement stroke.

2.6.6.1.3 Operating procedure

- assemble the drainage device on the test bench;
- put the product in the “closed” position;
- supply the tank to reach the water level corresponding to the device to be tested as shown in the table below.

Type of drainage device	Water level (mm)
Bath	300 ± 20
Sink and washbasin	120 ± 20

- adjust the torque and stroke
- subject the drainage device control to the following steps:
 - rotate from the closed position to the open position with an angular velocity of $(60 \pm 10)^\circ / \text{s}$ to empty the tub;
 - stop for $(3 \pm 0.5) \text{ s}$;
 - return from the open position to the closed position at an angular velocity of $(60 \pm 10)^\circ / \text{s}$;
 - supply the tub again until the water level corresponding to the device to be tested is reached;
 - stop to check the water level.
- Perform:
 - 20,000 cycles for sinks
 - 10,000 cycles for washbasins and bathtubs

Special case of double drain devices

- submit the drainage device control of tub No. 1 to:
 - rotate from the closed position to the open position with an angular velocity of $(60 \pm 10)^\circ / \text{s}$ to empty the tub;
 - stop for $(3 \pm 0.5) \text{ s}$;
 - return from the open position to the closed position at an angular velocity of $(60 \pm 10)^\circ / \text{s}$;
 - fill tub No. 1 to the water level corresponding to the type of device to be tested;
 - stop to note the water level;
 then submit the drainage device control of tub No. 2 to the following steps:
 - rotate from the closed position to the open position with an angular velocity of $(60 \pm 10)^\circ / \text{s}$ to empty the tub;
 - stop for $(3 \pm 0.5) \text{ s}$;
 - return from the open position to the closed position at an angular velocity of $(60 \pm 10)^\circ / \text{s}$;
 - fill the tub to the water level corresponding to the type of device to be tested;
 - stop to note the water level.
- Perform:
 - 20,000 cycles without applying stress to the stops.

After the endurance test, check that the leaktightness requirements (4.7 of NF EN 274-1) are met.

2.6.6.1.4 Required characteristics

Throughout the test, there must be no breakage, seizing or leaking.

2.6.6.2 Endurance of “snap” type drainage devices

2.6.6.2.1 Test principle

The test consists of subjecting the stop mechanism to a fixed number of movements, which are timed, and a specific water level.

2.6.6.2.2 Equipment

The test device consists of the following components:

- a supply circuit each including a pump or any similar device for supplying the test tub with a cold water at a temperature ≤ 30 °C;
- a machine for performing the cycle described below:
 - a support force of (45 ± 5) N for 1 to 2 s;
 - the speed of the translational motion is (5 ± 1) cm/s.

2.6.6.2.3 Operating procedure

- assemble the drainage device on the test bench;
- put the product in the “closed” position;
- supply the tank to reach the water level corresponding to the device to be tested as shown in the table below.

Type of drainage device	Water level (mm)
Bath	300 ± 20
Sink and washbasin	120 ± 20

- adjust the support force and stroke
- subject the drainage device control to the following steps:
 - apply a force of (45 ± 5) N from the closed position to the open position at a speed of (5 ± 1) cm/s to empty the tub;
 - stop for (3 ± 0.5) s;
 - apply a force of (45 ± 5) N from the open position to the closed position at a speed of (5 ± 1) cm/s to fill the tub;
 - supply the tub again until the water level corresponding to the device to be tested is reached;
 - stop to note the water level.
- Perform:
 - 20,000 cycles for sinks;
 - 10,000 cycles for washbasins and bathtubs.
- After the endurance test, check that the leaktightness requirements (4.7 of NF EN 274-1) are met.

2.6.6.2.4 Required characteristics

Throughout the test, there must be no breakage, seizing or leaking.

2.6.7 Reaction to boiling oil

This test only applies to sink drainage devices.

2.6.7.1 Test principle

The test consists of verifying the resistance of sink drainage devices to boiling oil.

2.6.7.2 Operating procedure

- assemble the drainage device on an appliance of the type for which it is normally intended;
- pour a volume of (5 ± 0.2) litres of oil at (150 ± 2) °C

2.6.7.3 Required characteristics

After the test, no leaks or visible deformation of the drainage device should be observed.

2.6.8 Test sequence

Sample Sequence	Order	Tests	
Sample 1 Materials		§7.2A Materials (salt spray)	
Sample 2 Materials		§7.2B Materials (air thermal shock)	
Sample 3 Thermal shock	1.	§6 Marking	
	2.	§4.3 Materials (Article 3 of NF EN 274-2 Temperature variation test)	
Sample 4 Endurance		Sample 4A -	Sample 4B – C1
	3.	§6 Marking	§6 Marking
	4.	§2.6.6.1 Endurance of cable-type drainage devices (with rotary control)	§2.6.6.2 Endurance of "snap" type drainage devices
	5.	§4.7 Leaktightness according to the type of drain	§4.7 Leaktightness according to the type of drain
Sample 5 Hydraulic	1.	§6 Marking	
	2.	§8 Dimensions	
	3.	§2.6.2 Dimensions	
	4.	§4.6 Hydraulic requirements	
	5.	§2.6.3.1 Additional tests for drainage devices with 2 tubs	
	6.	§2.6.3.2 Class E for flow rate (bathtub or shower drainage devices)	
	7.	§9 Leaktightness	
Sample 6	1.	§6 Marking	
	2.	§2.6.7 Reaction to boiling oil	

2.7 ECAU rating for drainage devices

The essential principle of the ECAU rating is that the different characteristics are independent of each other. The level of each characteristic is to be selected as needed. The highest level may apply for one characteristic, while the lowest level may apply for another.

2.7.1 Hydraulic or flow characteristic

2.7.1.1 Classification

Depending on their performance level, drainage devices can be classified as follows:

Class	Flow rate value	Type of drain
E1	$24 \text{ L/min} \leq q < 36 \text{ L/min}$	Shower stop
E2	$36 \text{ L/min} \leq q$	Shower stop
E3	$51 \text{ L/min} \leq q < 75 \text{ L/min}$	Bathtub drain
E4	$75 \text{ L/min} \leq q$	Bathtub drain

2.7.1.2 Selection criteria

Flow rate class selection will be based on:

- the supplied device;
- the building comfort level;
- the type of room to be equipped.

2.7.2 Comfort characteristics

2.7.2.1 Classification

Depending on their performance level, drainage devices can be classified as follows:

Class	The drainage device must comply with the requirements of the following articles:
C1	2.6.2 Dimensional 2.6.3.1 Hydraulic characteristics (for drainage devices with 2 tubs)
C2	2.6.3.2 Hydraulic characteristics (for shower stops)

2.7.2.2 Selection criteria

The comfort class selection will mainly depend on the characteristics and use of the building.

2.7.3 Acoustic characteristic

No acoustic characteristics for this type of product. In this case, class “A₀” is used.

2.7.4 Mechanical endurance or wear resistance characteristic

2.7.4.1 Classification

Depending on the actual level of wear resistance of its various components, drainage devices can be classified as follows:

Class	Number of cycles		
U0*	Drainage devices with no mechanical system		
U3	“Cable” type drainage device	Sink	20,000 cycles
		Washbasin, bathtub	10,000 cycles
	“Snap” type drainage devices:	Washbasin, bathtub	10,000 cycles
* If there are no endurance characteristics for this type of product. In this case, class “U0” is used.			

2.7.4.2 Selection criteria

U₃: intensive use and use in harsh conditions.

2.8 Example of ECAU rating

A bathtub drainage device with a flow rate during use of 76 L/min that passes comfort level 1 tests and passes the endurance and leaktightness tests shall be classified as:

E₄ C₁ A₀ U₃

A washbasin drainage device with a flow rate during use of 62 L/min, that passes comfort level 1 tests and passes the endurance and leaktightness tests shall be classified as:

E₂ C₁ A₀ U₃

A sink drainage device with a flow rate during use of 30 L/min, that passes comfort level 1 tests and passes the endurance, leaktightness and reaction to boiling oil tests shall be classified as:

E₁ C₁ A₀ U₃

A shower tray drainage device with a flow rate during use of 30 L/min that passes comfort level 2 tests shall be classified as:

E₁ C₂ A₀ U₀

2.9 Rating presentation

2.9.1 Specific information for the catalogue or other commercial media

See Chapter 6.1 of the regulations for use of DT077-00.

The specific information on the methods for rating drainage devices are as follows:

Flow	E	'q' L/min measured under 3 bar	E1	24 L/min ≤ q < 36 L/min		
			E2	36 L/min ≤ q		
			E3	51 L/min ≤ q < 75 L/min		
			E4	75 L/min ≤ q		
Comfort	C		C1	Dimensions, hydraulic performance for drainage devices with 2 tubs		
			C2	Hydraulic performance of shower tray stops (high flow)		
Acoustics	A	Lap dB (A)	A0	No acoustic requirement		
Wear	U	Number of cycles	U0	No mechanical system for the drainage device		
			U3	"Cable" type drainage device	Sink	20,000 cycles
					Washbasin, bathtub	10,000 cycles
	"Snap" type drainage devices:	Washbasin, bathtub	10,000 cycles			

2.9.2 Product information

See Chapter 6.2 of the regulations for use of DT077-00.

3 ECAU rating application

The rating application must be issued by the applicant/holder in one copy (**1 original on the applicant's letterhead paper in French or English**) according to the cases and models indicated below. All the documents are to be remitted to CSTB.

In the event that the product comes from a manufacturing unit located outside the European Economic Area, the applicant shall designate a representative within the European Economic Area who co-signs the application.

Note: Electronic versions of template letters and sheets may be obtained from CSTB.

The applicant produces a file that contains the elements described in the following table depending on the type of application.

Summary Applications Table

Type of application Elements	Initial application	Complementary application	Admission following a penalty of withdrawal	Suspension application	Renunciation application
Application and commitment letter	Standard letter 1A or 1B (for a representative)	Standard letter 2A or 2B (for a representative)	Standard sheet 7 specific items	Standard letter 5A or 5B (for a representative)	Standard letter 4A or 4B (for a representative)
Sales literature	YES	If applicable	YES	Instructions or extract from the catalogue	

3.1 For an initial rating application

The applicant shall prepare a dossier which includes:

- an application and commitment letter in accordance with standard letter 1 A;
- **if a representative**, application and commitment letter as per standard letter 1 B;

3.2 For a complementary rating application

The holder shall prepare a file containing the following:

- an application and commitment letter in accordance with standard letter 2 A;
- **if a representative**, application and commitment letter as per standard letter 2 B;

3.3 For a new rating application following a penalty of withdrawal of the ECAU rating

The holder shall prepare a file containing the following:

- specific items that all applicants must submit as part of a new admission application where the right of use has been withdrawn as a result of a sanction, using standard sheet 7.

3.4 For an application for the suspension of the ECAU rating

The holder shall prepare a file containing the following:

- a suspension letter as per standard letter 5 A;
- **if a representative**, a suspension letter as per standard letter 5 B.

3.5 For an application for renunciation of the ECAU rating

The holder shall prepare a file containing the following:

- a renunciation letter as per standard letter 6A;
- **if a representative**, a renunciation letter as per standard letter 6B.

STANDARD LETTER 1A
ECAU AND/OR EChAU RATINGS

ECAU OR EChAU RATING APPLICATION FORM
FOR APPLICANTS LOCATED IN THE EUROPEAN ECONOMIC AREA

(to be drawn up on the applicant's/holder's letterhead paper)

Centre Scientifique et Technique du Bâtiment
Direction Hydraulique et Equipements Sanitaires, (HES)
Division Robinetterie et Appareils Sanitaires (RAS)
For the attention of Mr. Laurent Rousseau
84, avenue Jean Jaurès
Champs sur Marne
F-77447 Marne La Vallée Cedex 2

Subject: **ECAU and/or EChAU rating admission application**
Attachment(s): a technical file.

Dear Sir, Madam,

I would like to request an ECAU and/or EChAU rating:

- for the following product/range of products: (detailed list of the product/range of products or specify "as set out in the list included with this application");
- produced at the following production unit: (company name, address);
- and for the following trade name: (trademark and/or specific trade reference, which may be on the list included with this application).

For this purpose, I declare that I have read and accept technical document 077-03 and undertake to comply with it and to inform my commercial network during the entire validity period of the ECAU and/or EChAU rating and in particular to comply without restrictions or reservations with the decisions made by CSTB.

Yours faithfully,

**Date, signature and name in full of the
applicant/holder's legal representative**

STANDARD LETTER 1B
ECAU AND/OR EChAU RATINGS

ECAU OR EChAU RATING APPLICATION FORM
FOR APPLICANTS LOCATED OUTSIDE OF THE EUROPEAN ECONOMIC AREA

(to be drawn up on the applicant's/holder's letterhead paper)

Centre Scientifique et Technique du Bâtiment (CSTB)
Direction Hydraulique et Equipements Sanitaires, (HES)
Division Robinetterie et Appareils Sanitaires (RAS)
For the attention of Mr. Laurent Rousseau
84, avenue Jean Jaurès
Champs sur Marne
F-77447 Marne La Vallée Cedex 2

Subject: **ECAU and/or EChAU rating admission application (with representative)**
Attachment(s): a technical file.

Dear Sir, Madam,

I would like to request an ECAU and/or EChAU rating:

- for the following product/range of products: (detailed list of the product/range of products or specify "as set out in the list included with this application");
- produced at the following production unit: (company name, address);
- and for the following trade name: (trademark and/or specific trade reference, which may be on the list included with this application).

For this purpose, I declare that I have read and accept technical document 077-03 and undertake to comply with it and to inform my commercial network during the entire validity period of the ECAU and/or EChAU rating and in particular to comply without restrictions or reservations with the decisions made by CSTB.

Furthermore, I appoint the Company (company name), (company legal form), (registered office) represented by Mr/Ms (name of the legal representative) in that person's capacity as (position) to represent me in the European Economic Area for all matters relative to ECAU and/or EChAU ratings.

I undertake to immediately notify CSTB of any new appointment of the representative designated above.

In this regard, I request that the expenses that are to be borne by me be invoiced directly to the representative. They shall make the payments on my behalf and in my name as soon as the invoices are received, as agreed when accepting the role of representative.

Yours faithfully,

Date, signature and name in full of the applicant's legal representative

preceded by the handwritten wording "Approving representation"

Date, signature and name in full of the representative in the European Economic Area

preceded by the handwritten wording "Accepting representation".

STANDARD LETTER 2A
ECAU AND/OR EChAU RATINGS

**COMPLEMENTARY APPLICATION FORM FOR ECAU AND/OR EChAU RATING
FOR APPLICANTS LOCATED IN THE EUROPEAN ECONOMIC AREA**

(to be drawn up on the applicant's/holder's letterhead paper)

Centre Scientifique et Technique du Bâtiment (CSTB)
Direction Hydraulique et Equipements Sanitaires, (HES)
Division Robinetterie et Appareils Sanitaires (RAS)
For the attention of Mr. Laurent Rousseau
84, avenue Jean Jaurès
Champs sur Marne
F-77447 Marne La Vallée Cedex 2

Subject: **Complementary application for the ECAU and/or EChAU rating**
Attachment(s): a technical file.

Dear Sir, Madam,

As holder of the ECAU and/or EChAU rating for the product(s) of our manufacture identified below:

- designation of the product(s):
- production unit:
- right of use granted on (date) and bearing the following number: (number of valid certificate)

I am writing to apply for the ECAU and/or EChAU rating for the following product/range of products that we manufacture:

- detailed list of the product/range of products:
- specific trade reference:

(this information may be included in a list attached to this application)

For an extension application, please provide the information below:

*This product deviates from the certified product/range of products due to the following modifications:
<description of the modifications>.*

The product/range of products for which I am seeking an extension will replace the certified product listed above:

- NO (1);
- YES (1).

I declare that the products/product range covered by this application are, with relation to the other characteristics, strictly in conformity with the products/product range already certified and manufactured under the same conditions.

For this purpose, I declare that I have read and accept technical document 077-03 and undertake to comply with it and to inform my commercial network during the entire validity period of the ECAU and/or EChAU rating and in particular to comply without restrictions or reservations with the decisions made by CSTB.

Yours faithfully,

**Date, signature and name in full
of the applicant/holder's legal representative**

(1) Delete as appropriate.

STANDARD LETTER 2B
ECAU AND/OR EChAU RATINGS

**COMPLEMENTARY APPLICATION FORM FOR ECAU AND/OR EChAU RATING
FOR APPLICANTS LOCATED OUTSIDE OF THE EUROPEAN ECONOMIC AREA**

(to be drawn up on the applicant's/holder's letterhead paper)

Centre Scientifique et Technique du Bâtiment (CSTB)
Direction Hydraulique et Equipements Sanitaires, (HES)
Division Robinetterie et Appareils Sanitaires (RAS)
For the attention of Mr. Laurent Rousseau
84, avenue Jean Jaurès
Champs sur Marne
F-77447 Marne La Vallée Cedex 2

Subject: **Complementary application for the ECAU and/or EChAU rating (with representative)**
Attachment(s): a technical file.

Dear Sir, Madam,

As holder of the ECAU and/or EChAU rating for the product(s) of our manufacture identified below:

- designation of the product(s):
- production unit:
- right of use granted on (date) and bearing the following number: (*number of valid certificate*)

I am writing to apply for the ECAU and/or EChAU rating for the following product/range of products that we manufacture:

- detailed list of the product/range of products:
- specific trade reference:

(this information may be included in a list attached to this application)

For an extension application, please provide the information below:

*This product deviates from the certified product/range of products due to the following modifications:
<description of the modifications>.*

The product/range of products for which I am seeking an extension will replace the certified product listed above:

- NO (1);
- YES (1).

I declare that the products/product range covered by this application are, with relation to the other characteristics, strictly in conformity with the products/product range already certified and manufactured under the same conditions.

For this purpose, I declare that I have read and accept technical document 077-03 and undertake to comply with it and to inform my commercial network during the entire validity period of the ECAU and/or EChAU rating and in particular to comply without restrictions or reservations with the decisions made by CSTB.

Furthermore, I appoint the Company (company name), (company legal form), (registered office) represented by Mr/Ms (name of the legal representative) in that person's capacity as (position) to represent me in the European Economic Area for all matters relative to ECAU and/or EChAU ratings.

I undertake to immediately notify CSTB of any new appointment of the representative designated above.

In this regard, I request that the expenses that are to be borne by me be invoiced directly to the representative. They will make the payments on my behalf and in my name as soon as the invoices are received, as agreed when accepting the role of representative.

Yours faithfully,

**Date, signature and name in full
of the applicant's legal representative**

preceded by the handwritten wording "Approving representation"

**Date, signature and name in full
of the representative in the European Economic Area**

preceded by the handwritten wording "Accepting representation".

(1) Delete as appropriate.

STANDARD LETTER 4A
ECAU AND/OR EChAU RATINGS

**APPLICATION FORM FOR RENUNCIATION OF THE ECAU AND/OR EChAU RATING
FOR APPLICANTS LOCATED IN THE EUROPEAN ECONOMIC AREA**

(to be drawn up on the applicant's/holder's letterhead paper)

Centre Scientifique et Technique du Bâtiment (CSTB)
Direction Hydraulique et Equipements Sanitaires, (HES)
Division Robinetterie et Appareils Sanitaires (RAS)
For the attention of Mr. Laurent Rousseau
84, avenue Jean Jaurès
Champs sur Marne
F-77447 Marne La Vallée Cedex 2

Subject: **Application for renunciation of the ECAU and/or EChAU rating**

Dear Sir, Madam,

As holder of the ECAU and/or EChAU rating, I would like to renounce the ECAU and/or EChAU rating for the product(s) that we manufacture identified by the following references:

- designation of the product(s):
- manufacturing unit: (company name, address):
- brand name:
- commercial reference:
- date of ECAU and/or EChAU rating admission: or certificate No.:

for the following reasons:

-

for a maximum duration of 6 months, renewable once.

Manufacturing is due to cease on:

The inventories of these products with packaging marked ECAU or EChAU are the following:

The anticipated time it will take to deplete them is:

Yours faithfully,

**Date, signature and name in full of the holder's
legal representative**

STANDARD LETTER 4A
ECAU AND/OR EChAU RATINGS

**APPLICATION FORM FOR RENUNCIATION OF THE ECAU AND/OR EChAU RATING
FOR APPLICANTS LOCATED IN THE EUROPEAN ECONOMIC AREA**

(to be drawn up on the applicant's/holder's letterhead paper)

Centre Scientifique et Technique du Bâtiment (CSTB)
Direction Hydraulique et Equipements Sanitaires, (HES)
Division Robinetterie et Appareils Sanitaires (RAS)
For the attention of Mr. Laurent Rousseau
84, avenue Jean Jaurès
Champs sur Marne
F-77447 Marne La Vallée Cedex 2

Subject: **Application for renunciation of the ECAU and/or EChAU rating**

Dear Sir, Madam,

As holder of the ECAU and/or EChAU rating, I would like to renounce the ECAU and/or EChAU rating for the product(s) that we manufacture identified by the following references:

- designation of the product(s):
- manufacturing unit: (company name, address):
- brand name:
- commercial reference:
- date of ECAU and/or EChAU rating admission: or certificate No.:

for the following reasons:

-

for a maximum duration of 6 months, renewable once.

Manufacturing is due to cease on:

The inventories of these products with packaging marked ECAU or EChAU are the following:

The anticipated time it will take to deplete them is:

Yours faithfully,

**Date, signature and name in full of the holder's
legal representative**

**STANDARD LETTER 5A
ECAU AND/OR EChAU RATINGS**

**APPLICATION FORM FOR SUSPENSION OF THE ECAU AND/OR EChAU RATING
FOR APPLICANTS LOCATED IN THE EUROPEAN ECONOMIC AREA**

(to be drawn up on the applicant's/holder's letterhead paper)

Centre Scientifique et Technique du Bâtiment (CSTB)
Direction Hydraulique et Equipements Sanitaires, (HES)
Division Robinetterie et Appareils Sanitaires (RAS)
For the attention of Mr. Laurent Rousseau
84, avenue Jean Jaurès
Champs sur Marne
F-77447 Marne La Vallée Cedex 2

Subject: **Application for suspension of the ECAU and/or EChAU rating**

Dear Sir, Madam,

As holder of the ECAU and/or EChAU rating, I would like to request the suspension of the ECAU and/or EChAU rating for the product(s) that we manufacture identified by the following references:

- designation of the product(s):
- manufacturing unit: (company name, address):
- brand name:
- commercial reference:
- date of ECAU and/or EChAU rating admission: or certificate No.:

for the following reasons:

-

for a maximum duration of 6 months, renewable once.

Manufacturing is due to cease on:

The inventories of these products with packaging marked ECAU or EChAU are the following:

The anticipated time it will take to deplete them is:

Yours faithfully,

**Date, signature and name in full of the holder's
legal representative**

STANDARD LETTER 5B
ECAU AND/OR EChAU RATINGS

**APPLICATION FORM FOR SUSPENSION OF THE ECAU AND/OR EChAU RATING
FOR APPLICANTS LOCATED OUTSIDE OF THE EUROPEAN ECONOMIC AREA**

(to be drawn up on the applicant's/holder's letterhead paper)

Centre Scientifique et Technique du Bâtiment (CSTB)
Direction Hydraulique et Equipements Sanitaires, (HES)
Division Robinetterie et Appareils Sanitaires (RAS)
For the attention of Mr. Laurent Rousseau
84, avenue Jean Jaurès
Champs sur Marne
F-77447 Marne La Vallée Cedex 2

Subject: **Application for suspension of the ECAU and/or EChAU rating (with a representative)**

Dear Sir, Madam,

As holder of the ECAU and/or EChAU rating, I would like to request the suspension of the ECAU and/or EChAU rating for the product(s) that we manufacture identified by the following references:

- designation of the product(s):
- manufacturing unit: (company name, address):
- brand name:
- commercial reference:
- date of ECAU and/or EChAU rating admission: or certificate No.:

for the following reasons:

-

for a maximum duration of 6 months, renewable once.

Manufacturing is due to cease on:

The inventories of these products with packaging marked ECAU or EChAU are the following:

The anticipated time it will take to deplete them is:

Yours faithfully,

**Date, signature and name in full of the holder's
legal representative**

**Date, signature and name in full of the
representative in the European Economic Area**

STANDARD SHEET 7
ECAU AND/OR EChAU RATINGS

SPECIFIC ITEMS ALL APPLICANTS (INDUSTRIALISTS, IMPORTERS, DISTRIBUTORS, ETC.) MUST PRODUCE AS PART OF A NEW ADMISSION APPLICATION WHEN THE RATING HAS BEEN WITHDRAWN AS A RESULT OF A SANCTION

In the event of an act of deceptive commercial practice under Articles L 121-2 to L121-5 of the Consumer Code (indication of a false rating of a certified product or a false label).

The applicant is responsible for determining and carrying out a course of action that will fully address and remedy the causes and consequences of their commitments as regards the correct usage of the certification mark.

ACTIONS	MINIMUM PROOF TO BE SUPPLIED BY THE CSTB APPLICANT SHOWING THE ACTIONS THEY HAVE UNDERTAKEN TO FULLY ADDRESS AND REMEDY THE CAUSES AND CONSEQUENCES	VALIDITY OF THE PROOF RECEIVED
CURATIVE ACTIONS	<ul style="list-style-type: none"> A list of those affected including full contact details (customers, prospects, technical controllers, etc.) who have received false attestations/false certificates; failing that, a list of those affected (customers, prospects, technical controllers, etc.) who have been contacted over the preceding 24 months. 	<input type="checkbox"/> List sent <input type="checkbox"/> List not sent <i>Comments:</i>
	<ul style="list-style-type: none"> List of customers, including full contact details, who have received products with inappropriately marked packaging information; otherwise, the list of customers of the past 24 months. 	<input type="checkbox"/> List sent <input type="checkbox"/> List not sent <i>Comments:</i>
	<ul style="list-style-type: none"> Letter written by the Applicant's manager informing those affected of the invalidity of the false attestations/false certificates they have been sent. 	<i>CSTB will verify that this action has been carried out by contacting 5% of those affected or at least 5 customers and technical controllers.</i> <input type="checkbox"/> Letter of information duly implemented, corroborated by those affected <input type="checkbox"/> Letter of information not implemented or partially implemented <i>Comments:</i>
	<ul style="list-style-type: none"> Letter written by the Applicant's manager informing the customers of products that are inappropriately marked or products bearing the certification mark(s). 	<i>CSTB will verify that this action has been carried out by contacting 5% of the customers or at least 5 customers</i> <input type="checkbox"/> Letter of information duly implemented, corroborated by those affected <input type="checkbox"/> Letter of information not implemented or partially implemented <i>Comments:</i>
	<ul style="list-style-type: none"> Action undertaken against the person or persons responsible for approving and issuing the false attestations/false certificates and/or delivering inappropriately marked products. 	<input type="checkbox"/> Action is relevant <input type="checkbox"/> Action is not relevant <i>Comments:</i>

4 Prices

The purpose of this chapter is to determine the amount due for services related to the ECAU and EChAU ratings and describe the terms of payment.

The ECAU and EChAU ratings include the following services:

- Development, examination of application and implementation of ECAU and/or EChAU ratings;
- Operation of ECAU and/or EChAU ratings;
- Testing.

4.1 Services related to the ECAU and EChAU ratings.

Nature of the service	Definition of the service	Paying for the services
<p><u>Management:</u> Development and implementation of ratings, examination of the rating application</p>	<p>Participation in the implementation of the ratings, including preparation of the associated technical document.</p> <p>Services including examination of application files, relations with applicants, laboratories and assessment of inspection results.</p>	<p>➤ <i>Initial/complementary application: See § 4.2.1</i></p>
<p><u>Management:</u> Rating operation</p>	<p>Services including management of rating files, relations with holders, laboratories, publication of ratings data on certificates, assessment of inspection results.</p>	<p>➤ <i>Monitoring: See § 4.2.2</i></p>
<p>Tests</p>	<p>Laboratories' testing services</p>	<p>The laboratories' price lists are provided upon request.</p> <p>The applicant/holder supplies samples free of charge and makes them available at the laboratory's address.</p> <p>The costs related to the import duties and taxes are to be borne by the test applicant; the applicant shall pay all duties and taxes before sending the samples.</p> <p>➤ <i>Initial/complementary application: See § 4.2.1</i></p> <p>➤ <i>Monitoring: See § 4.2.2</i></p>

4.2 Paying for the services

4.2.1 Initial application/complementary application

Management and testing fees related to examination services are invoiced in the framework of an initial or complementary ECAU and/or EChAU rating application. They are payable in one instalment, at the time at which the application is filed, for official registration.

Such fees will remain payable even if the ECAU and/or EChAU rating is not granted or extended or if the application is withdrawn during the examination.

4.2.2 Monitoring

Fees for annual services related to management and testing of ECAU and/or EChAU ratings are invoiced during the first quarter of each year and will remain payable in the event of non-renewal, withdrawal, cancellation or suspension of the ECAU and/or EChAU rating during the year.

4.2.3 Non-payment of amounts due

The applicant or holder of the ECAU and/or EChAU rating must pay all fees in accordance with the established terms of payment. Any failure on their part is an obstacle to the fulfilment by CSTB of the responsibilities of inspection and corrective action that are incumbent upon it hereunder.

If a first official notice by registered letter with acknowledgement of receipt does not result in the payment of all amounts due within one month, any established penalties may be applied for all of the products accepted for such holder.

4.3 Prices

Prices are reviewed annually, in the form of a price list drawn up by CSTB. This revision is reported by CSTB.

If holders refuse to recognise the annual revision of fees, they shall be deemed to have voluntarily terminated the ratings for their products.

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