

# **SANITARY TAPWARE**

## **Technical document**

### **077-06**

ECAU rating for extractable handsprays for sink and washbasin mixers

Technical Document 077-06 Rev03  
24/11/2022

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## MODIFICATION HISTORY

Revision no.	Application date	Modifications
00	01/06/2017	<p><b>Update to the document layout and reference.</b></p> <p><b>Content modifications:</b></p> <ul style="list-style-type: none"> <li>– Some technical changes</li> </ul>
01	02/04/2019	<p>Technical document 077-06_Rev18, on the “Jet Regulator” product family, is replaced by the product family “Extractable handsprays for sink and washbasin mixers”</p> <p><b>Update of technical document according to the new frame:</b></p> <p><i>“Trame_doc_technique_VF_PC_DT_R3.”</i></p> <p><b>Content modifications:</b></p> <ul style="list-style-type: none"> <li>– establishment of EChAU rating</li> </ul>
02	01/10/2020	Reference to the regulation for use of marks (DT077-00)
03	24/11/2022	<p>Modification of the EChAU rating into ECAU.</p> <p>Modification at the ECAU classification in terms of flowrate, comfort and endurance classes. Implementation of “A B C D” performances for each class of the ECAU rating.</p> <p>Updating of the “Hydraulique et Equipements Sanitaires” Department name by “Direction de l’EAU” and the name of Division “Robinetterie et Appareils Sanitaires (RAS)” by Division “Equipements Sanitaires et du Bâtiment (ESB)”.</p> <p>Deletion of standards publication year.</p>

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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 16145 - version 2013 that are taken into account for the E.C.A.U. rating in accordance with the regulation for use DT077-00.

## 1.2 List of the tests involved

The table below lists the articles of the Standard NF EN 16145.

Articles	Title of articles
6	Marking
7	Materials
7.1	Chemical and hygienic requirements
7.2A	State of visible surfaces and coating quality ( <i>neutral salt spray test</i> )
7.2A	State of visible surfaces and coating quality ( <i>"air" thermal shock resistance test</i> )
8	Dimensional characteristics
9	Leaktightness characteristics
9.1	Grid supply leaktightness
9.2	Leaktightness of manually operated jet selector
9.3	Leaktightness and operation of automatic jet selectors
10	Mechanical characteristics
10.2	Mechanical strength
10.3	Mechanical endurance of jet selectors
10.4	Thermal shock resistance test
11	Hydraulic characteristics
12	Protection against backflow
13	Acoustic characteristics
14	Rotating fitting

## 2 E.C.A.U. 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 16145.

For extractable handsprays for sink and washbasin mixers, the requirements are as follows:

- Hydraulic performance levels according to user needs;
- Creation of the 3 acoustic classes to clarify this performance;
- Increase in mechanical characteristics requirements by a change in the temperature of the thermal shock test (hot water at  $(93 \pm 2) ^\circ\text{C}$  instead of  $70 ^\circ\text{C}$ ) in the European standard to optimise shower lifespan;
- Increased endurance performance by multiplying by 2.5 the requirements of the European standard to optimise maintenance frequencies;
- Improved maintenance with an anti-limescale system for handspray jets.

It should be noted, however, that the use of the E.C.A.U. rating is voluntary and supplementary to the evaluation of a product that is already certified under standard NF EN 16145.

### 2.2 Purpose

The purpose of this chapter is to establish the hydraulic, mechanical, mechanical endurance, acoustic and maintenance performance levels to be met by extractable handsprays for sink and washbasin mixers to qualify for the E.C.A.U. rating.

### 2.3 Field of application

This chapter applies to extractable handsprays for sink and washbasin mixers that are subject to Standard NF EN 16145.

### 2.4 References to standards and additional specifications

NF EN 16145	Sanitary tapware - Extractable handsprays for sink and washbasin mixers - General technical specifications
NF EN ISO 3822-1	Acoustics - Laboratory tests on noise emission from appliances and equipment used in water supply installations - Part 1: Method of measurement
NF EN ISO 3822-2	Acoustics - Laboratory tests on noise emission from tapware and hydraulic equipment used in water supply installations - Part 2: Guidelines for the installation and operation of draw-off taps and tapware.
DT077-00	Regulations for use of marks

### 2.5 E.C.A.U. rating principle

The E.C.A.U. 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 E.C.A.U. rating is characterised by the association of the letters E.C.A.U., 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 extractable handsprays for sink and washbasin mixers:

- pursuant to Standard NF EN 16145. The test procedures are defined in Article 1 of this document.
- having passed the performance tests for the E.C.A.U. 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 tap as it is equipped (standard accessories: regulators, fittings, etc.).

There are 6 classes for this characteristic. See Article 2.7.1.1.

### 2.5.2 Meaning of C

The comfort characteristics taken into account are hydraulic performance, endurance and thermal shock resistance.

There are 4 classes for this characteristic. See Article 2.7.1.3.

	<b>C</b>
Class 0	– Maintenance (handspray jets: no soft silicone part or other to facilitate jet cleaning)
Class 1	– Maintenance (handspray jets: soft silicone part or other to facilitate jet cleaning)
Class 2	– Must be C1 – Water saving flowrate
Class 3	– Handspray efficiency under study

### 2.5.3 Meaning of A

The acoustic characteristic taken into account is the sound pressure level,  $L_{ap}$ .

There are 2 classes for this characteristic. See Article 2.7.2.1.

### 2.5.4 Meaning of U

The wear characteristic taken into account is the mechanical characteristic and, more precisely:

- mechanical endurance: the number of operating cycles to which the jet selectors of extractable handsprays of sink and washbasin mixers are subjected
- thermal shock resistance

There is 1 class for this characteristic. See Article 2.7.3.1.

An application for an E.C.A.U. rating implies a class 3 application for endurance tests (U3).

## 2.6 Performance level for the E.C.A.U. rating for products subject to Standard NF EN 16145

### 2.6.1 Marking

No requirements in addition to those under the NF EN 16145 Standard.

### 2.6.2 Materials

No requirements in addition to those under the NF EN 16145 Standard.



### 2.6.3 Dimensional characteristics

No requirements in addition to those under the NF EN 16145 Standard.

### 2.6.4 Leaktightness characteristics

No requirements in addition to those under the NF EN 16145 Standard.

### 2.6.5 Mechanical characteristics

#### 2.6.5.1 Mechanical endurance of jet selectors

**Endurance performance is modified by multiplying by 2.5 the jet selector requirement in Standard NF EN 16145.**

#### 2.6.5.2 Thermal shock resistance tests

The test under the standard is modified as follows in the purpose of ECAU rating:

##### 2.6.5.2.1 Operating procedure

The product is subjected to water circulation, at a flow rate of 0.08 to 0.12 L/s without exceeding a supply pressure of 2.8 bar.

- Mount the product on a test device of the type for which it is normally intended.
- Subject it to 5 cycles (if U3 class is requested) or to 3 cycles (if U2 class is requested) of water circulation, with each cycle including:
  - $(15 \pm 1)$  min water flow at  $(93 \pm 2)$  °C, with flow upstream of the jet regulator limited to a maximum of 0.15 L/s;
  - $(10 \pm 1)$  min water flow at  $(20 \pm 5)$  °C, with flow upstream of the jet regulator limited to a maximum of 0.15 L/s

##### 2.6.5.2.2 Requirements

No leaks should be observed during the test cycles. At the end of the test, there must be no visible permanent deformation of the product and no peeling or flaking of the coating.

### 2.6.6 Hydraulic characteristics

#### 2.6.6.1 Flow rate with “high flow” jet selection

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

#### 2.6.6.2 “Water saving” controlled flow rate

To be considered in the framework of the E.C.A.U. rating, the “water saving” characteristic must meet the following requirements:

Handsprays used in sanitary tapware are subjected to a controlled flow rate when they are used for washbasins and sinks.

To ensure the flow rate, it seemed appropriate to use a test described in Article 11 of Standard NF EN 16145 and measure the flow rate value.

##### 2.6.6.2.1 Test principle

The purpose is to determine, for the tested handsprays, the value of the flow rate for reference pressures of 1.5 - 3 and 4.5 bar, also constant on the cold water supply.

The measurement is performed on a handspray.

##### 2.6.6.2.2 Equipment

See Article 11.2.2 of Standard NF EN 16145.

#### 2.6.6.2.3 Operating procedure

- Supply the product with a dynamic pressure of 0.3 (+ 0.02/0) MPa or 3 (+ 0.2/0) bar.
- Measure and record the flow rate values.

#### 2.6.6.2.4 Required characteristics

*Flow rate according to the product*

Type of product	“Water saving” flowrate requirements
Washbasin handspray	6.0 L/min < q < 9.0 L/min
Sink handspray	9.0 L/min ≤ q < 12.0 L/min

#### 2.6.7 Acoustic characteristics

Handsprays with Lap > 30 cannot be admitted for the E.C.A.U. rating.

Verification of the acoustic value obtained with class A; see article 2.7.2.1.

#### 2.6.8 Maintenance

Extractable handsprays for sink and washbasin mixers are equipped with an anti-limescale system for handspray jets (soft silicone part or other to facilitate jet cleaning).

#### 2.6.9 Rotating fitting

No requirements in addition to those under the NF EN 16145 Standard.

## 2.6.10 Order of tests

Sample Sequence	Order	Tests	
<b>Sample 1 Materials</b>	1.	§7.2A Materials (salt spray)	
<b>Sample 2 Materials</b>	1.	§7.2B Materials (air thermal shock)	
<b>Sample 3 Endurance</b>		<b>Sample 1A – manual selector</b>	<b>Sample 1B – automatic selector</b>
	1.	§6 Marking	§6 Marking
	2.	§12 Protection against backflow	§12 Protection against backflow
	3.	§9.2 Leaktightness	§9.3 Leaktightness
	4.	§10.3A Endurance	§10.3B Endurance
	5.	§9.2 Leaktightness	§9.3 Leaktightness
	6.	§2.6.5 Endurance	§2.6.5 Endurance
	7.	§9.2 Leaktightness	§9.3 Leaktightness
<b>Sample 4 Thermal shocks</b>	1.	§6 Marking	
	2.	§12 Protection against backflow	
	3.	§10.4 Thermal shock reaction	
	4.	§9 Leaktightness	
<b>Sample 5 Thermal shocks</b>	1.	§5 Marking	
	2.	§12 Protection against backflow	
	3.	§2.6.5.2 Thermal shock reaction	
	4.	§9 Leaktightness	
<b>Sample 6 Hydraulic</b>	1.	§6 Marking	
	2.	§12 Protection against backflow	
	3.	§8 Dimensions	
	4.	§11 Hydraulic characteristic	
	5.	§2.6.6.1 Class E for flow rate with "High flow" selection)	
	6.	§2.6.6.2 "Water saving" controlled flow rate	
	7.	§9 Leaktightness	
	8.	§10.2 mechanical strength	
<b>Sample 7-8-9 Acoustic</b>	1.	§6 Marking	
	1.	§12 Protection against backflow	
	2.	§13 Acoustics	
	3.	§2.6.7 Class A for acoustics	
<b>Sample 10 Rotating fitting</b>	1.	§6 Marking	
	2.	§12 Protection against backflow	

## 2.7 E.C.A.U. rating for extractable handsprays

The essential principle of the E.C.A.U. 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, extractable handsprays for sink and washbasin mixers can be classified as follows:

Class	Flow rate value
E00	$4.0 \text{ L/min} \leq q \leq 6.0 \text{ L/min}$
E0	$9.0 \text{ L/min} \leq q < 12.0 \text{ L/min}$
E1	$12.0 \text{ L/min} \leq q < 16.0 \text{ L/min}$
E2	$16.0 \text{ L/min} \leq q < 20.0 \text{ L/min}$
E3	$20 \text{ L/min} \leq q < 25.2 \text{ L/min}$
E4	$25.2 \text{ L/min} \leq q < 30 \text{ L/min}$

Depending on their level of performance, the valves have a score of type A, B, C, D.

#### Water saving for handsprays for washbasin faucets

Flowrate at 3 bars (L/min)	4	9	12	16	20+
Rating	A	B	C	D	
Technical score	E00 – E01	E0	E1	E2 +	

#### Water saving for handsprays for sink faucets

Flowrate at 3 bars (L/min)	6	12	16	20	25,2+
Rating	A	B	C	D	
Technical score	E01 - E0	E1	E2	E3 +	

#### 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.
- Comfort characteristics

#### 2.7.1.3 Classification

Depending on their performance level, extractable handsprays for sink and washbasin mixers can be classified as follows:

Class	Handsprays for sanitary tapware must comply with the following articles:
C0	2.6.8. Maintenance (handspray jets: no soft silicone part or other to facilitate jet cleaning)
C1	2.6.8. Maintenance (handspray jets: soft silicone part or other to facilitate jet cleaning)
C2	2.6.6.2. Flowrate "water saving" Handspray efficiency under study
C3	Handspray efficiency under study

Depending on their level of performance, the valves have a score of type A, B, C, D.

#### Comfort class for handspray for washbasin and sink faucets

<b>Rating</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
<b>Technical score</b>	<b>C3 – Ch3</b>	<b>C2 – Ch2</b>	<b>C1 – Ch1</b>	<b>C0</b>

#### 2.7.1.4 Selection criteria

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

### 2.7.2 Acoustic characteristic

#### 2.7.2.1 Classification

Depending on their performance level, extractable handsprays for sink and washbasin mixers can be classified as follows:

Acoustic group	Class	Lap
NC	A0	30 dB (A) < Lap
II	A1	20 dB (A) < Lap ≤ 30 dB (A)
I	A2	15 dB (A) < Lap ≤ 20 dB (A)
I	A3	Lap ≤ 15 dB (A)

#### Noise level of handspray for washbasin, sink faucets

<b>Noise level at 3 bars (dB(A))</b>	<b>0</b>	<b>5</b>	<b>10</b>	<b>15</b>	<b>20</b>	<b>25</b>	<b>30</b>	<b>35</b>	<b>40+</b>
<b>Rating</b>	<b>A</b>			<b>B</b>	<b>C</b>		<b>D</b>		
<b>Technical score</b>	<b>A3</b>			<b>A2</b>	<b>A1</b>		<b>A0</b>		

#### 2.7.2.2 Selection criteria

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

## 2.7.3 Mechanical endurance or wear resistance characteristic

### 2.7.3.1 Classification

Depending on the actual wear resistance level of their individual components, extractable handsprays for sink and washbasin mixers can be classified as follows:

Class	Number of cycles	
U1	Thermal shock reaction 70°C Jet selector	300 cycles 8,000 cycles
U2	Thermal shock reaction 90°C Jet selector	3 cycles 14,000 cycles
U3	Thermal shock reaction 90°C Jet selector	5 cycles 20,000 cycles

### 2.7.3.2 Selection criteria

U<sub>0</sub>: this score is not possible for this rating because it is lower than the product standard.

U<sub>1</sub>: use.

U<sub>2</sub>: intensive use.

U<sub>3</sub>: intensive use and use in harsh conditions.

For extractable handspray, only U3 class is possible for this rating.

## 2.8 Example of E.C.A.U. rating

An extractable handspray for sink mixers with a flow rate during use of 14 L/min that passes comfort level 1 tests, with an L<sub>ap</sub> of 12 dB (A), and that passes the endurance tests (20,000 cycles) and thermal shock tests shall be classified as:

E1 Ch <sub>1</sub> A <sub>2</sub> U <sub>3</sub>
--

An extractable handspray for washbasin mixers with a flow rate during use of 5 L/min that passes comfort level 2 tests, with an L<sub>ap</sub> of 9 dB (A), and that passes the thermal shock resistance test shall be classified as:

E <sub>00</sub> Ch <sub>2</sub> A <sub>3</sub> U <sub>3</sub>
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## 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:extractable handsprays for sink and washbasin mixers taps are as follows:

Flow	<b>E</b>	Q L/min measured under 3 bar	E00	4.0 L/min $\leq$ q $\leq$ 6.0 L/min	
			E0	9.0 L/min $\leq$ q < 12.0 L/min	
			E1	12.0 L/min $\leq$ q < 16.0 L/min	
			E2	16.0 L/min $\leq$ q < 20.0 L/min	
			E3	20 L/min $\leq$ q < 25.2 L/min	
			E4	25.2 L/min $\leq$ q < 30 L/min	
Comfort	<b>C</b>	Type	C <sub>0</sub>	Maintenance (no soft silicone part on jet)	
			C <sub>1</sub>	Maintenance (soft silicone part on jet)	
			C <sub>2</sub>	Flowrate “water saving” Handspray efficiency class 2 (under study)	
			C <sub>3</sub>	Handspray efficiency (under study)	
Acoustics	<b>A</b>	Lap dB (A)	A <sub>0</sub>	30 dB (A) < Lap	
			A <sub>1</sub>	20 dB (A) < Lap $\leq$ 30 dB (A)	
			A <sub>2</sub>	15 dB (A) < Lap $\leq$ 20 dB (A)	
			A <sub>3</sub>	Lap $\leq$ 15 dB (A)	
Wear	<b>U</b>	Number of cycles	U <sub>1</sub>	Thermal shock reaction 70°C Jet selector	300 cycles 8,000 cycles
			U <sub>2</sub>	Thermal shock reaction 90°C Jet selector	3 cycles 14,000 cycles
			U <sub>3</sub>	Thermal shock reaction 90°C Jet selector	20,000 cycles

### 2.9.2 Product information

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

### 3 E.C.A.U. 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
<b>Application and commitment letter</b>	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)
<b>Sales literature</b>	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 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 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 E.C.A.U. 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 E.C.A.U. 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 E.C.A.U. 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 de l'Eau  
Division Equipements Sanitaires et du Bâtiment (ESB)  
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 associated with this rating 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 de l'Eau  
Division Equipements Sanitaires et du Bâtiment (ESB)  
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 a 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 associated with this rating 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".

**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 de l'Eau  
Division Equipements Sanitaires et du Bâtiment (ESB)  
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 associated with this rating 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 de l'Eau  
Division Equipements Sanitaires et du Bâtiment (ESB)  
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 a 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 associated with this rating 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 de l'Eau  
Division Equipements Sanitaires et du Bâtiment (ESB)  
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 4 B**  
**ECAU AND/OR EChAU RATINGS**

(to be drawn up on the distributor's letterhead)

**APPLICATION FOR RENUNCIATION OF THE ECAU AND/OR EChAU RATING WITH A  
REPRESENTATIVE  
FOR APPLICANTS LOCATED OUTSIDE OF THE EUROPEAN ECONOMIC AREA**

For the attention of Mr Laurent Rousseau  
Division Equipements Sanitaires et du Bâtiment (ESB)  
Direction de l'Eau  
CSTB  
84 avenue Jean Jaurès  
CHAMPS-SUR-MARNE  
77447 MARNE LA VALLEE CEDEX 2 (France)

Subject: **Application for renunciation 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 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 admission no.:

for the following reasons:

Manufacturing is due to cease on:

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

The expected time for their depletion is:

Yours faithfully,

**Date and signature of the holder's legal  
representative**

**Date and signature of the representative in the  
European Economic Area**

**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 de l'Eau  
Division Equipements Sanitaires et du Bâtiment (ESB)  
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 de l'Eau  
Division Equipements Sanitaires et du Bâtiment (ESB)  
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"> <li>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.</li> </ul>	<input type="checkbox"/> List sent <input type="checkbox"/> List not sent <i>Comments:</i> .....
	<ul style="list-style-type: none"> <li>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.</li> </ul>	<input type="checkbox"/> List sent <input type="checkbox"/> List not sent <i>Comments:</i> .....
	<ul style="list-style-type: none"> <li>Letter written by the Applicant's manager informing those affected of the invalidity of the false attestations/false certificates they have been sent.</li> </ul>	<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"> <li>Letter written by the Applicant's manager informing the customers of products that are inappropriately marked or products bearing the certification mark(s).</li> </ul>	<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"> <li>Action undertaken against the person or persons responsible for approving and issuing the false attestations/false certificates and/or delivering inappropriately marked products.</li> </ul>	<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
<u>Management:</u> Development and implementation of ratings, examination of the rating application	Participation in the implementation of the ratings, including preparation of the associated technical document.  Services including examination of application files, relations with applicants, laboratories and assessment of inspection results.	➤ <i>Initial/complementary application: See § 4.2.1</i>
<u>Management:</u> Rating operation	Services including management of rating files, relations with holders, laboratories, publication of ratings data on certificates, assessment of inspection results.	➤ <i>Monitoring: See § 4.2.2</i>
Tests	Laboratories' testing services	The laboratories' price lists are provided upon request. The applicant/holder supplies samples free of charge and makes them available at the laboratory's address. 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. ➤ <i>Initial/complementary application: See § 4.2.1</i> ➤ <i>Monitoring: See § 4.2.2</i>

## 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 shall 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 shall 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.

*[Trame\_doc\_technique\_VF\_R3\_DT\_PC-rev02]*