

CIDEMCO

ECHNOLOGICAL RESEARCH CENTRE

B° Lasao, Area Anardi n" 5 Apartado de Correos 134 20730 Azpeitia Guipúzcoa Testing Laboratory
Tel.: 943-816800
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TEST CERTIFICATE

COMPANY

ENEA EREDU, S. COOP.

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ADDRESS

Apartado 97

20250 LEGORRETA (GUIPUZKOA)

CERTIFICATE No

7531

ACCREDITATIONS

ENAC

ENAC: 341LE162. Windows

ENAC: 34/LE346.Construction fittings

ENAC: 34/LE347. Wood

ENAC: 341LE347. Wooden flooring

ENAC: 34/LE345. Varnishes

ENAC: 341LE345. Paint

ENAC: 34/LE024. Kitchen fittings

ASSOCIATED WITH:

ENAC

(National Accreditation Organisation)

ASEFAVE (Spanish Association of Light

facades and Windows Manufacturers)

FEDIT

(Spanish Federation of Technological Innovation Organisations)

AETEPA

(Spanish Association of Painting and Associated Trade Technicians) STOOL

«COMA 140»

TEST	TEST CHARACTERISTICS	RESULT
1. Static load on seat (section 2.5.1)	F applied =1600 N No. cycles: 10	SATISFACTORY
2. Fatigue on seat (section 2.5.5)	F seat = 950 N No. cycles: 120.000	SATISFACTORY
3. Impact on seat (section 2.5.10)	Impact height: 300 mm No. impacts: 10	SATISFACTORY
4. Drop test (section 2.5.13)	Drop height: 900 mm No. falls: 10	SATISFACTORY
5. Tipping test for stools (section 2.4.2)	F vertical: 600 N F horizontal: 20 N	SATISFACTORY

Tests performed according to UNE 11010:1989 (1-4) and UNE 11011:1989 (5) (test level 5)

This document is invalid without the test report which coincides with the number of the certificate containing the results of each test.

The results of these tests only refer to the sample(s) analysed in this Centre on the date shown above, and do not imply that production quality is consistent. (Signature and stamp)



TECHNOLOGICAL RESEARCH CENTRE



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TEST RESULT

CUSTOMER: ENEA EREDU, S. COOP.

CONTACT: IÑAKI ELIZEGI

ADDRESS: APARTADO 97

20250 LEGORRETA

MATERIAL TESTED: STOOL «COMA 140»

TEST METHODS: TESTS ACCORDING TO UNE 11010:1989 AND UNE 11011:1989

DATE RECEIVED: 21/09/2001
TESTING STARTED: 26/09/2001
TESTING ENDED: 09/10/2001

Total no. of pages

6 (Including this page)

The test results only relate to material received and tested at the Research Centre on 21/09/2001.

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Asier Maiztegi Head, Furnishing Dept José M^a Irure Technician, Furnishing Dept

Azpeitia, 17 October, 2001

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SAMPLE CHARACTERISTICS

On 21st September 2001 CIDEMCO received a backless stool from the company ENEA EREDU S. COOP with the reference:

«COMA 140»

TESTS REQUESTED

The tests requested are the Structural Strength and Stability for chairs according to the Standard UNE 11010:1989 and UNE 11011:1989 at the highest level of testing.

TESTING AND RESULTS

The tests carried out are described below, in the order in which they were performed using the same sample.

All tests were conducted at **level 5**, as set out in Annex A of the UNE 11020:1992/2 standard corresponding to use "Severe Public" (furniture intended to be installed in unrestricted places of public access, mostly without any control. The frequency of usage is very high and by a multitude of different people. Due to its location, it is expected to be used in a negligent or even brusque fashion. Examples may be furniture installed in of free access areas of stations or similar, stations bars and cafes, etc).

After the testing, no element, component or union should be broken, and neither should any gaps, cracks or any deterioration of the chair be detected.

The tests conducted were:

Customer: ENEA EREDU, S. COOP

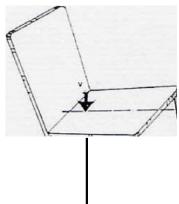
Ref: Stool «140»



Hoja 3 de 6

1 - STATIC LOAD TEST ON SEAT (UNE 11010:1989 section 2.5.1)

The test involves applying a vertical load of 1,600 N 10 times on the least favourable point of the seat.



Force applied to the seat: 1,600 N

• No. of cycles performed: 10

RESULT: SATISFACTORY

2 - FATIGUE TEST ON THE SEAT (UNE 11010:1989 section 2.5.5)

The test involves applying a horizontal force V of 950 N on the load point of the seat and performing it over a period of 120,000 cycles.

Force on the seat: 950 N

Test frequency: 28 cycles/min
No. of cycles performed: 120,000

Customer: ENEA EREDU, S. COOP

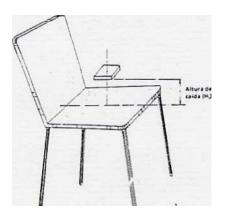
Ref: Stool «140»

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3 - IMPACT TEST ON THE SEAT (UNE 11010:1989 section 2.5.10)

The test consists of dropping an impactor 10 times on the seat from a height H_{i.}



• Impact height (H_i): 300 mm

• No of impacts performed: 10

RESULT: SATISFACTORY

4 – DROP TEST (UNE 11010:1989 section 2.5.13)

The test consists of dropping a chair from a height H_{e} on the legs of the stool at an angle of 10° .

Drop height (H_e): 900 mm

No of impacts performed: 10

RESULT: SATISFACTORY

Customer: ENEA EREDU,S. COOP

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5 - STOOL TIPPING TEST (UNE 11011:1989 section 2.4.2)

The test involves applying a vertical force V on the stool and a horizontal force F at the height of the seat.

• Vertical force (V): 600 N

• Horizontal force (F): 20 N

RESULT: SATISFACTORY

Customer: ENEA EREDU, S. COOP

Ref: Stool «140»

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RESULTS SUMMARY

• Standards UNE 1 1010:1989 and UNE 11011:1989 (test 5)

• Level of test: 5 (Public severe)

TEST	TEST CHARACTERISTICS	RESULT
Static load on seat (section 2.5.1)	F applied =1600 N No. cycles:10	SATISFACTORY
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Impact on seat (section 2.5.10)	Impact height: 300 mm No. impacts: 10	SATISFACTORY
Drop test (section 2.5.13)	Drop height: 900 mm No. falls: 10	SATISFACTORY
Tipping test for stools (section 2.4.2)	F vertical:600 N F horizontal: 20 N	SATISFACTORY

Customer: ENEA EREDU, S. COOP

Ref: Stool «140»

