

DECLARATION OF COMPLIANCE WITH SECURITY REQUIREMENTS

Description of the product:

- MODUM Original Foldable Fire Escape Ladder, up to 10 meters.
- MODUM Original Foldable Inspection Ladder, up to 10 meters.

MODUM ApS declares:

- The ladders have been certified by SINTEF Certification (NR. 2536), TÜV Nord, Hamburg (Belastungsprüfungen, report no: 3837PR27230), SP Technical Research Institute of Sweden (Test of foldable ladder, report nr. P805377),
- Material used for the ladders is certified by DIN 931, DIN 933 and DIN 985,
- Ladders are not considered machines or elevator tools. Thus, CE marked is not applied to these
 products.

Every MODUM product is supplied with an installation manual including an adhesive scratchproof indelible label which aims are:

- Certify that the product accomplishes quality standards and security regulations.
- Certify products security.
- Inform customers of preparations for installations, installation and after installations of the Modum Ladder.

Conclusion:

 The ladders have been designed and manufactured in compliance with European Standard EN 131, DIN 18799-1 and DIN 14094-1 (vertical ladders).

Nakskov, February 5th, 2018.

Anders Christensen Production Manager

Anders Christian

MODUM ApS Linkøbingvej 8, 4600 Nakskov Denmark Telephone +45 2681 8560

email: info@modum.dk www.modum.dk





SINTEF Certification

Nr. 2536

 First time issued:
 28.06.2017

 Last time revised:
 Valid until:

 Valid until:
 01.07.2022

 Provided published on www.sintefcertification.ng

SINTEF Building Research confirms that

MODUM Original Fire Escape Ladder

is considered suitable for use and satisfies requirements for product documentation in accordance with the Regulations on Sales and Documentation of Products for Construction (DOC) and the Regulations for Technical Requirements for Construction (TRC) for the characteristics, uses and conditions of use as specified in this documentt

1. Proprietor of the approval

Modum System AS Luramyrveien 19 4313 Stavanger www.modum.com

2. Product Description

MODUM Original Fire Escape Ladder is a folding Fire Escape Ladder for escape from buildings in case of fire. The ladder is mounted vertically to the outside wall, balcony so that it can be used as exit from window, balcony, etc., see fig. 1. When pulling out the Release pin, the Fire Escape Ladder opens. Any overhead ladder sections can be opened separately from an upper floor.

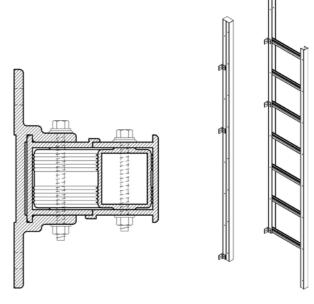
The ladder is available in 16 standard lengths, from 0.9 m to 5.4 m, with increments of 0.3 m. The sections can be connected in order to adapt to individual buildings. In closed condition, the ladder appears as an aluminium drain pipe on the wall, where the steps are hidden inside the ladder, see fig. 2.

MODUM Original Fire Escape Ladders are manufactured from extruded aluminium profiles. The ladders and rungs are in quality EN AW-6060 T66, while the console is in quality EN AW-6063 T66, according to EN 573-3 and EN 755-2. The profiles are anodized according to ISO 7599. Figure 3 shows the profile dimensions. Steps screws and nuts are acid proof steel A4-80 according to EN ISO 3506. The Release pin is in acid proof stainless steel 1.4301 according to EN 10088-1.

In addition to the ladder parts, there are mounting brackets, Release pin, a top cover and fixing screws.









Cross section of closed ladder. When closed the dimensions are 72 mm x 47 mm. When open the dimensions are 398 mm x 47 mm. The rung width is 311 mm, the rung distance is 300 mm.

SINTEF is a Norwegian member of the European Organization for Technical Assessment, EOTA, and the European Union of Agreement, Eat

Contact, SINTEF: Jon Lundesgaard

Prepared by: Eli Bjørhovde Rindal

Telephone: +47 73 59 30 00

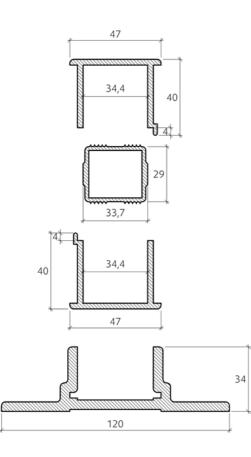


Fig. 3

Profiles for outer wings, steps, inner wings and brackets with thicknesses of 3.0, 2.0, 3.0 and 5.0 mm respectively. The profiles are fastened together with M6 x 47 mm step screws and M6 locking nuts.

3. Applications

MODUM Original Fire Escape Ladders can be mounted as Fire Escape Ladders on detached houses, terraced houses, cabins, workplaces, low blocks and the like where there may be a need for escape from the window, balcony, terrace and the like.

MODUM Original Fire Escape Ladders are used as a measure to improve safety and security through improved escape of buildings where the requirements for escape routes according to Building Technology Regulations (TEC) are otherwise satisfied. Primarily the use of the ladder is escape from windows with a distance of max. 5m above ground.

For use as approved escape route, see section 6 regarding conditions of use.

4. Properties

Load capacity

MODUM Original Fire Escape Ladders meet the load requirements specified in NS-EN 131 Ladder - Portable ladders. MODUM original ladders can be loaded with 2.6 kN in the middle of a step and by external catch. This corresponds to two persons standing at the same time in each ladder unit, provided adequate wall mounting as specified in section 6.

Effect from Fire

The materials of MODUM Original Fire Escape Ladders have fire class A1 according to EN 13501-1.

Durability

Based on the material qualities specified in section 2, MODUM Original Fire Escape Ladder are considered to have satisfactory resistance.

MODUM Original Fire Escape Ladders are made with special bushings to prevent the release pin and screws from direct contact with the aluminium and eliminate oxidation.

5. Environmental conditions

Health and environment hazardous chemicals

The product contains no priority environmental pollutants, or other relevant substances in an amount considered to be hazardous to health and the environment. Priority environmental hazards include CMR, PBT and vPvB substances.

Impact on soil and groundwater

The product has not been tested for soil and water pollution.

Waste treatment / recycling

The product is sorted as metal upon disposal. The product is to be delivered to an approved collection where it can be recycled.

Environmental declaration

No environmental declaration (ED) has been prepared for the product.

6. Terms of use

Engineering

MODUM Original Fire Escape Ladders are intended for the escape of buildings at an early stage in the fire and should be installed to protect them as much as possible from radiant heat and flames from underlying floors. The ladder should not be placed near the window of the floors below.

MODUM Original Fire Escape Ladder shall be fitted with the lowest steps at least 0.5 m above the ground and the outside profile at least 0.2 m above the ground in when open. Elevation should be increased if it is expected that opening of the ladder could be prevented by snow or placement of objects along the wall.

MODUM Original Fire Escape Ladders are mounted so that the top is at least 1.0 m, and preferably 1.2 m above the bottom window or at least 1.7 m above the balcony floor. The top steps to be taken on board should be 0.6 - 0.9 m above the window edge / railings. The ladder is provided with holes for the locking block at the first and third steps from the top. Only one Release pin must be fitted in one of the holes. The Release pin position should be easily accessible from the window, also for children. If necessary, the ladder can be supplied with holes for the Release pin at another step. The distance to the balcony should be at least 0.50 m. Distance to the windowsill's side frame should be max. 0.35 m, but for windows with middle post, the ladder should be placed right next to the side frame.

If there are restricted exit conditions, e.g. by sidehinged and outward-facing windows with a central post, the ladder can be mounted in alignment with the centre post to provide satisfactory accessibility for escape. The manufacturer has prepared assembly instructions adapted to the different window types, such as the pivot window, top hinged window, side hanger window etc.

Use for enhanced escape

MODUM Original Fire Escape Ladder can be used for enhanced escape from existing buildings.

Use as escape route from window according to TEC with guidance

For buildings in classes 1, 2 and 4, a window with a lower edge less than 5 m above planned terrain can be used as an approved escape route according to TEC with guidance when the window opening height and width are as shown in Fig. 4.

If no special precautions have been taken, the window should not exceed 1.0m above the floor.

Escape window must be marked as exit, except in homes.

See also Building Research 520,391 Escape via window. Requirements and design and Chapter 11 of the TEC with guidance.

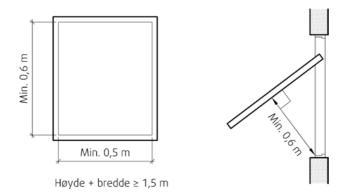


Fig. 4

Measurements on to window as escape route. Window with middle post must meet the minimum measurements on each side of the middle post.

MODUM Original Fire Escape Ladders can also be used as approved escape routes from balconies, terraces, etc.

Installation

On wooden walls, MODUM Original Fire Escape Ladder is mounted with stainless steel screws with diameter min. 6 mm. At the upper part of the ladder, tighten the screws in pairs with vertical centre spacing max. 0.6 m between the wall brackets / screw pairs. On the horizontal planks, it is recommended to use extra-long screws in order to secure the ladder to the wall. On masonry and concrete walls, the ladder is fastened with suitable expansion bolts, concrete screws or similar fasteners adapted to the current wall material.

Maintenance / control

An annual test of the ladder and its functions should be carried out, as well as the control of the fixing screw attachment to the wall.

Transport and storage

MODUM Original Fire Escape Ladders are supplied plastic packed. The shipment must be accompanied by a mounting instruction as well as the necessary accessories such as Release pin, screws and joints.

7. Product and production control

The product is manufactured by: MODUM ApS

Linkøpingvej 8 DK-4900 Nakskov DENMARK

The Proprietor of the approval is responsible for the production control to ensure that MODUM Original Fire Escape Ladders are manufactured according to the assumptions underlying the approval

Factory production of MODUM Original Fire Escape Ladder is subjected to surveillance and product control according to contract for SINTEF Technical Approval

8. Basis for approval

The approval is based on a system assessment and verification of properties as documented in the following reports:

- TÜV Nord, Hamburg. *Belastnungsprüfungen*, rapport no. 3837PR27230, 01.09.2003
- SP Technical Research Institute of Sweden, *Test of foldable ladder*, report no. P805377, 26.11.2008.
- MODUM Holding ApS. Profile Drawing; DLT 3143 (160590), DLT 3139 (060690), DLT 3111 (920316).

From SAPA Extrusion Tønder A/S

- SINTEF Byggforsk, Byggforskserien 520.391 Escape through window. Requirements and design, April 2017.
- MODUM System AS, Installation Instructions for MODUM Fire Escape Ladder.

9. Labelling

Each ladder must be marked with the manufacturer name and an identification indicating the time of production. It may also be labelled with the SINTEF Technical Approval Mark; TG 2536.



Approval markings

10. Liability

The proprietor / producer has the independent product liability in accordance with applicable law. Terms of use cannot be transferred to SINTEF Building Research beyond that mentioned in NS 8402.

for SINTEF Byggforsk

Hans Boye Shigston

Hans Boye Skogstad Approval Manager



Zertifikat

Certificate

Registrier-Nr. Registration no. 78/220GS/311442

Aktenzeichen

File reference

YKG8000311442

Zeichen des Auftraggebers customers reference

Name und Anschrift des Auftraggebers

ist berechtigt, das unten genannte Produkt mit dem abgebildeten Zeichen zu kennzeichnen

Fertigungsstätte

Geprüft nach

Beschreibung des Produktes

TÜV NORD CERT GmbH & Co. KG TÜV CERT-Zertifizierungsstelle für Maschinen und Fördertechnik

Der Leiter The head Auftragsdatum Date of order 18.09.2003

> Modum A/S Linkopingvej 8 DK 4900 Nakskov Danmark



Modum A/S Linkopingvej 8 DK 4900 Nakskov Danmark

DIN EN 131: April 1993 "Leitern", Teil. 2

Notausstiegsleiter Klappbare Leiter zur Fassadenmontage bis 10 Meter Länge

Bitte beachten Sie auch die umseitigen Hinwelse Please also pay attention to the information stated overleaf



Am TÜV 1 • 30519 Hannover • Fon +49 (0)511 986 1470 • Fax +49 (0)511 986 1590

Prüfbericht Nr. Test report no. 3837PR27230 ZB 03/ 550560

Name and address of the customer

is authorized to provide the product mentioned below with the mark as illustrated

Manufacturing plant

Tested in accordance with

Description of product

Gültig bis: 12.2006 Valid until:

Hannover, den 15.12.2003 Hanover, dated

TÜV CERT A4 04.02 10.000 Lö

Anlage P2 Blatt 1 von 1 zu Prüfbericht 3837PR27230



Belastungsprüfungen

1. Angaben zum Prüfobjekt

Gegenstand:	Feuerleiter				
Werkstoff:	Aluminium				
Kennzeichnung:	keine				

2. Angaben zur Prüfung

Prüfgrundlagen:

DIN EN 131 Punkt 3.2 Ausführung Punkt 3.3 Oberflächenbeschaffenheit Punkt 3.6 Sprossen/Stufen

3. Ergebnis

3.1 DIN EN 131 Punkt 3.2 (Ausführung)

Scherstellen sind keine vorhanden. Die Sprossen sind mit Schrauben und selbstsichernden Muttern befestigt.

3.2 DIN EN 131 Punkt 3.3 (Oberflächeneigenschaften)

Folgende Ecken, Kanten und vorstehende Teile sind nicht abgerundet und sind eine Verletzungsgefahr:

- Im zusammengeklappten Zustand das Blech zur Abdeckung der Leiterholme
- Im ausgeklappten Zustand das Blech zur Abdeckung der Leiterprofile, so wie die Enden der Leiterholme

3.3 DIN EN 131 Punkt 3.6 (Sprossen und Stufen)

Die Sprossen sind rutschhemmend profiliert. Sie sind mit Schrauben und selbstsichernden Muttern dauerhaft und fest mit den Holmen verbunden (siehe Prüfngen Anlage P3)

Hamburg, 1. September 2003

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Anlage P3 Blatt 1 von 4 zu Prüfbericht 3837PR27230



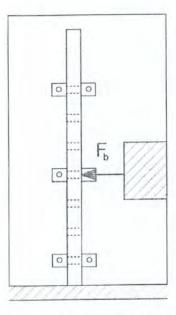
Belastungsprüfungen

1. Angaben zum Prüfobjekt

Gegenstand:	Feuerleiter					
Werkstoff:	Aluminium					
Kennzeichnung:	keine					

2. Angaben zur Prüfung

Prüfgrundlagen:	DIN EN 131 und zusätzliche Anforderungen die sich aus dem Anwendungsfall ergeben
Prüfverfahren:	Belastungsprüfungen
Prüfaufbau:	DIN EN 131 Punkt 4.6 und 4.7 zusätzliche Prüfungen siehe Skizze
Prüfgerät:	Hydraulikzyinder, Kraftmessdose, Messverstärker, A/D Wandler



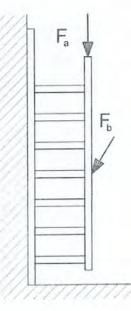


Bild 1: Prüfaufbau der zusätzliche Prüfungen

F_a = vertikale Belastungsprüfung bis zur Maximalkraft

F_b = horizontale Belastungsprüfung bis 2 kN

Anlage P3 Blatt 2 von 4 zu Prüfbericht 3837PR27230



Belastungsprüfungen

3. Ergebnis

3.1 DIN EN 131 Punkt 4.6 (Durchbiegung der Sprossen)

Bei der Vorlast von 200 N wurde für das Maß b1 (Abstand zwischen den Befestigungselementen der Sprosse) ein Wert von 354 mm vor und nach der Belastungsprüfung ermittelt (Belastungs-Zeit-Verlauf siehe Bild 2).

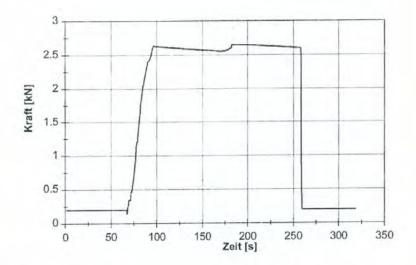


Bild 2: Kraft-Zeit-Verlauf der Prüfung "Durchbiegung der Sprossen"

Anlage P3 Blatt 3 von 4 zu Prüfbericht 3837PR27230



Belastungsprüfungen

3.2 DIN EN 131 Punkt 4.7 (Verdrehprüfung der Sprossen)

Nach 10 maligem Aufbringen des Drehmomentes von 50 Nm wurde eine bleibende Verdrehung von 0,4° ermittelt.

3.3 Vertikale Belastungsprüfung bis zur Maximalkraft

Die Maximale Belastung eines zwei-sprossigen Prüfobjektes beträgt 2,6 kN. Die Maximale Belastung des sieben-sprossigen Prüfobjektes beträgt 9,5 kN (siehe Kraft-Zeit-Diagramm).

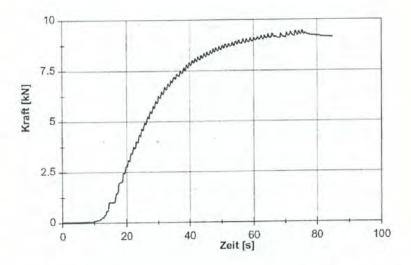


Bild 3: Kraft-Zeit-Verlauf der vertikalen Belastungsprüfung der 7-sprossigen Leiter

Anlage P3 Blatt 4 von 4 zu Prüfbericht 3837PR27230



Belastungsprüfungen

3.4 Horizontale Belastungsprüfung bis 2 kN

Die Maximale Belastung eines zwei-sprossigen Prüfobjektes beträgt 2,6 kN. Die Maximale Belastung des sieben-sprossigen Prüfobjektes beträgt 2 kN (siehe Kraft-Zeit-Diagramm).

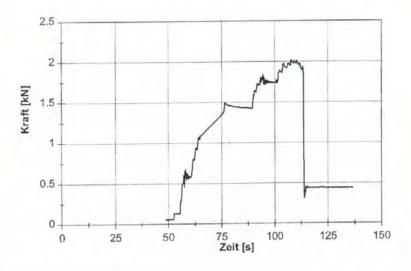


Bild 4: Kraft-Zeit-Verlauf der horizontalen Belastungsprüfung der 7-sprossigen Leiter

Hamburg, 1. September 2003

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Anlage P1 Blatt 1 von 1 zu Prüfbericht 3837PR27230



Ergebnisse der Zugversuche nach DIN EN 10002-1

Gegenstand: Werkstoff: Probenform: Feuerleiter Aluminium EN 10002 Bild 9

Probenkenn- zeichnung	Dicke	Breite	Durch- messer	Prüf- tempe- ratur	Streck- grenze	Dehn- grenze	Dehn- grenze	Zug- festig- keit	Bruch- dehnung L0 ¹⁾ =	Bruch- ein- schnü- rung	Bruch- lage ²⁾	Bemerkung
	a	b	d _o mm	t °C	R _{eH} N/mm ²	R _{p0,2} N/mm ²	R _{p1.0} N/mm ²	R _m N/mm ²	mm A %	Z %		
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 G: Grundwerkstoff; Ü: Nahtübergang; S: Schweißnaht

più. Hübner

Hamburg, 5.Sept.2003

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Handled by, department Sven-Agne Nilsson Building Technology and Mechanics +46 10 516 52 15, sven-agne.nilsson@sp.se
 Date
 Reference

 2008-11-26
 P805377

 Translation date 2008-12-05

Page 1 (2)

SWEDAC SAUCE FAEDITE 1002 ISO/IEC 17025

Modum A/S Linköpingsvej 8 DK - 4900 DANMARK

Test of foldable ladder

(1 appendix)

1 Introduction

SP has been commissioned by Modum A/S, Denmark, to perform tests of a foldable ladder.

2 Test method

The tests were performed according to relevant parts of SS 83 13 40 "Takskydd – Stegar för fast vertikal montering – Funktionskrav" utgåva 2.

3 Test objects

A foldable ladder made of aluminium, described in Appendix 1. The ladder was chosen by the client and arrived at SP on 2008-09-11 and was tested on 2008-10-07.

4 Test method and results

The ladder was mounted in a steel test rig and was loaded in accordance with SS 83 13 40, laterally, vertically as well as on one rung. When the ladder was loaded with 0.75 kN, the deformation 35 mm was recorded. Permitted deformation is a tenth of the distance between the ladder and the wall, which in this case equals 44 mm. When the ladder was loaded vertically the deformation 11 mm was recorded during the test, and when unloaded the remaining deformation was 1 mm. The requirements according to the standard are 15 mm and 2 mm respectively. When one rung was loaded, the deformation 2 mm was recorded during the test and there was no remaining deformation. The requirements according to the standard are 7 mm and 2 mm respectively.

The ladder fulfilled the requirements in all the tests.

SP Technical Research Institute of Sweden

Postal address SP Box 857 SE-501 15 Borås SWEDEN Office location Västeråsen Brinellgatan 4 SE-504 62 Borås SWEDEN Phone / Fax / E-mail +46 10 516 50 00 +46 33 13 55 02 info@sp.se Laboratories are accredited by the Swedish Board for Accreditation and Conformity Assessment (SWEDAC) under the terms of Swedish legislation. This report may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

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Date Reference 2008-11-26 P805377 Translation date 2008-12-05

Page 2 (2)

5 Others

The measurement uncertainty for the applied force is $\leq 1,3$ % and for the measurements of deformation $\leq 1,6$ %. The reported uncertainties correspond to an approximate 95 % confidence interval around the measured value. The interval has been calculated in accordance with GUM (The ISO guide to the expression of uncertainty in measurements), which is normally accomplished by quadratic addition of the actual standard uncertainties and multiplication of the resulting combined standard uncertainty by the coverage factor k=2.

The test results refer only to the tested sample.

SP Technical Research Institute of Sweden Building Technology and Mechanics - Solid Mechanics and Structures

Klas Johansson

Technical Manager

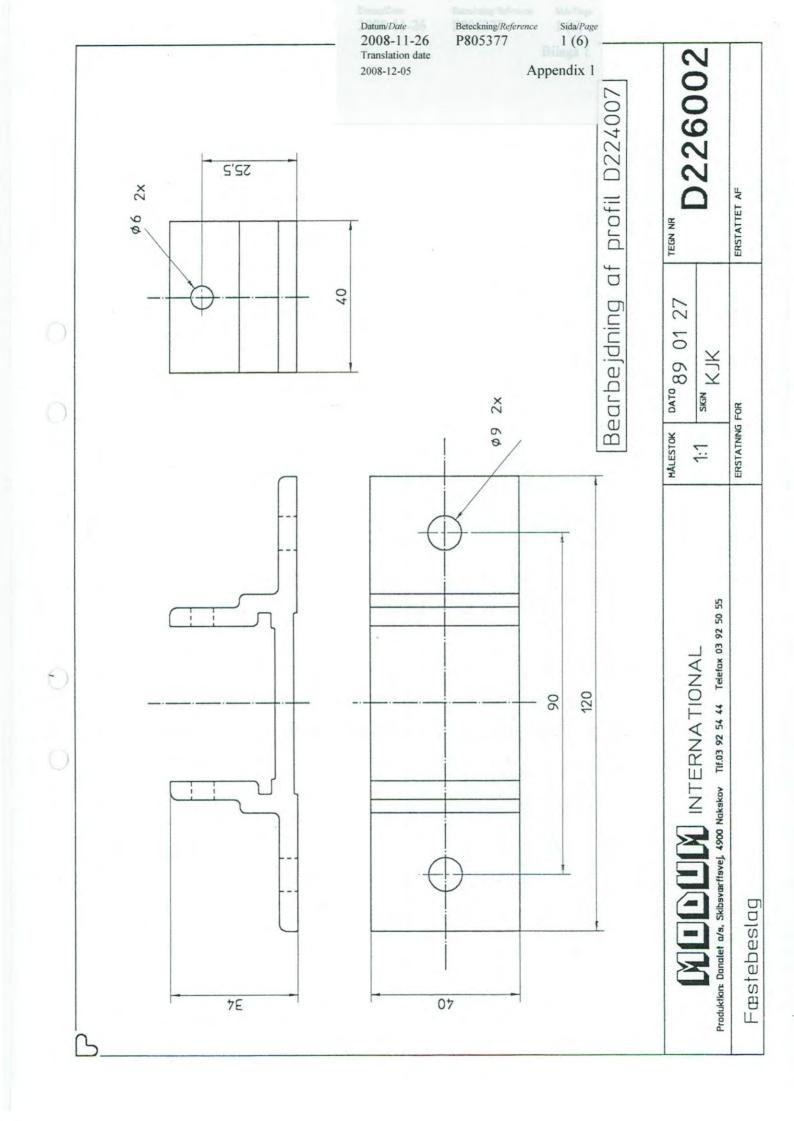
Sven-Agne Nilsson

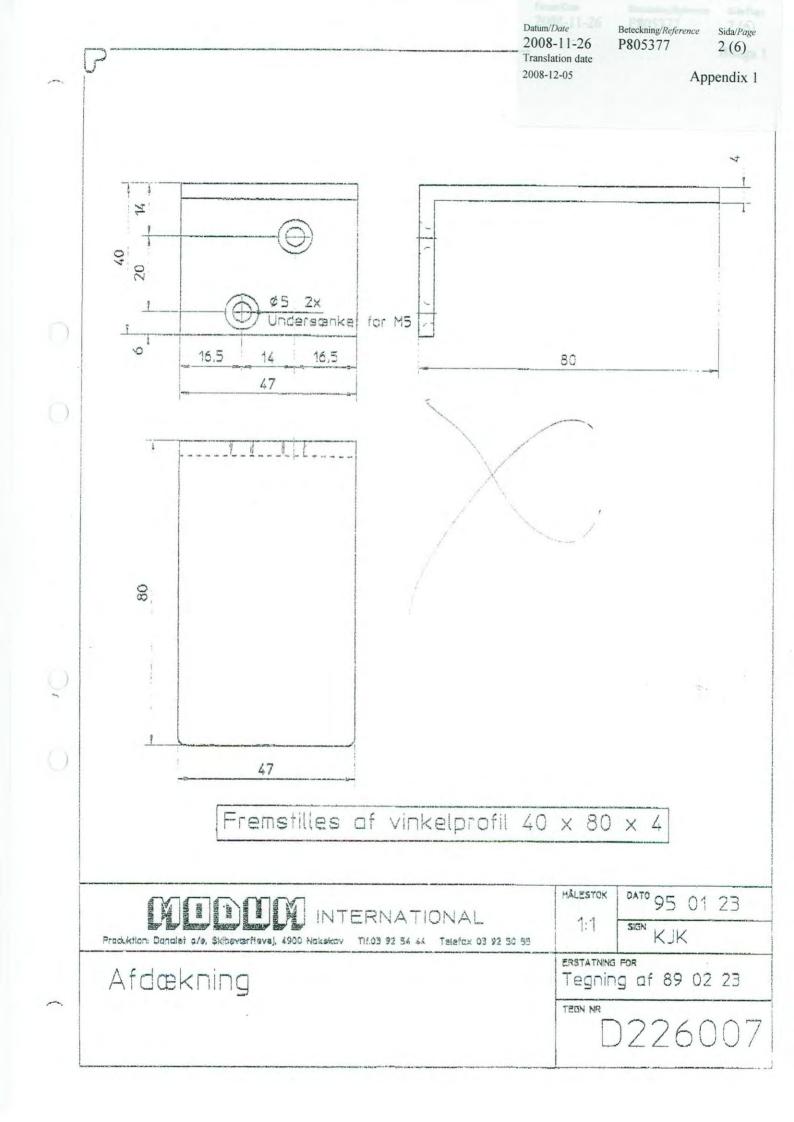
Technical Officer

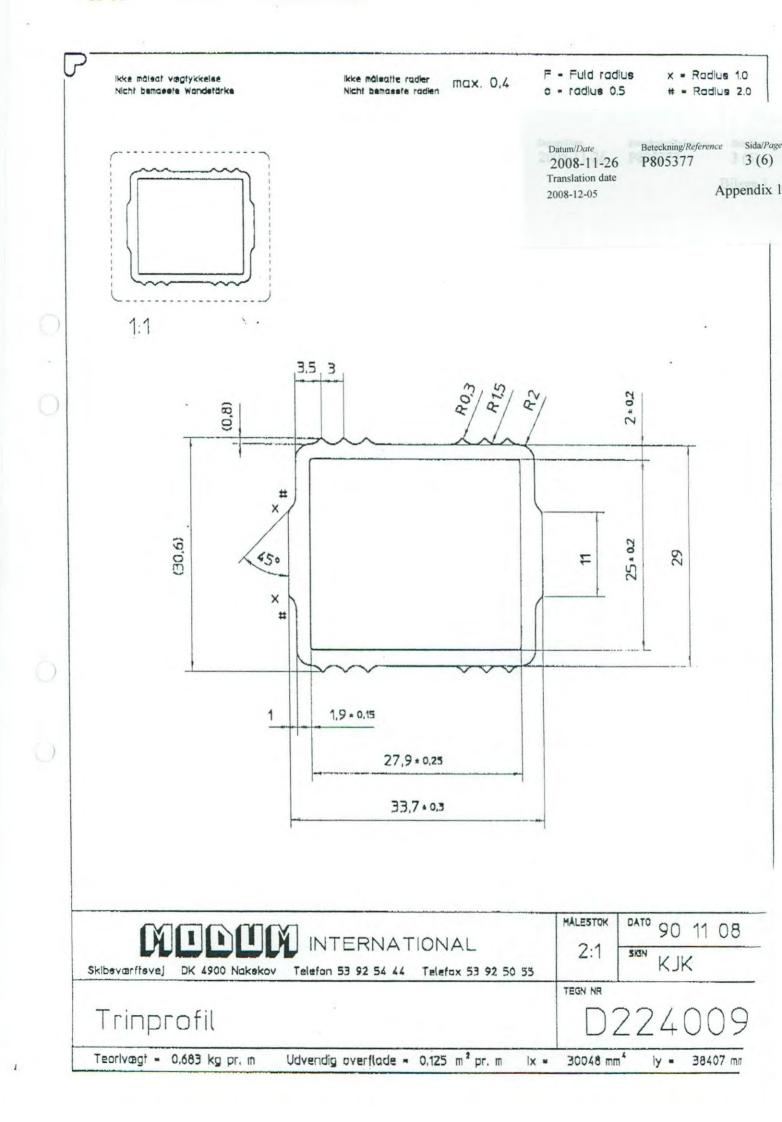
Appendix

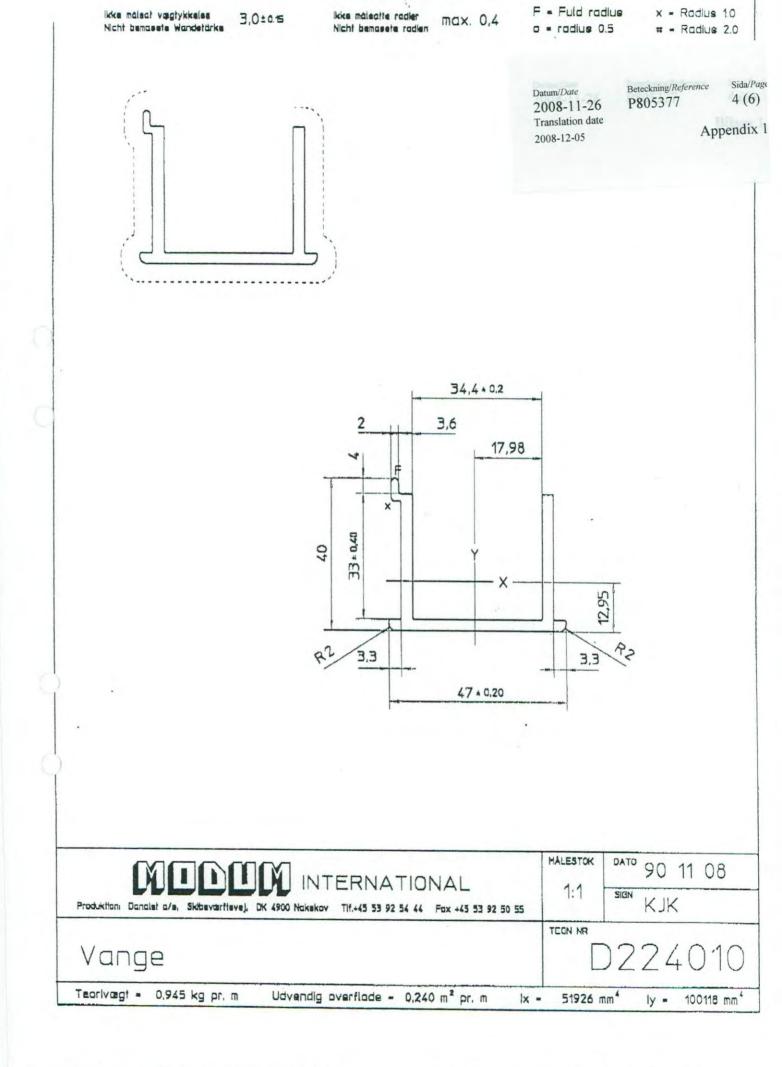
1. Drawings (6 pages)

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

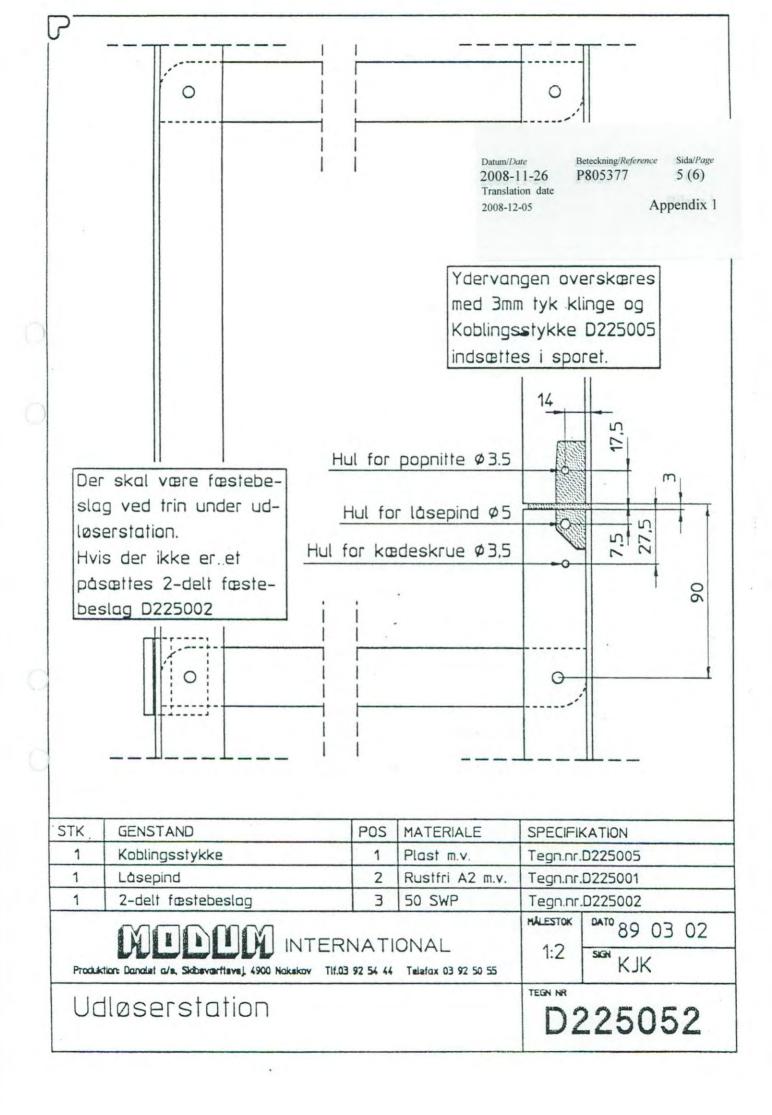


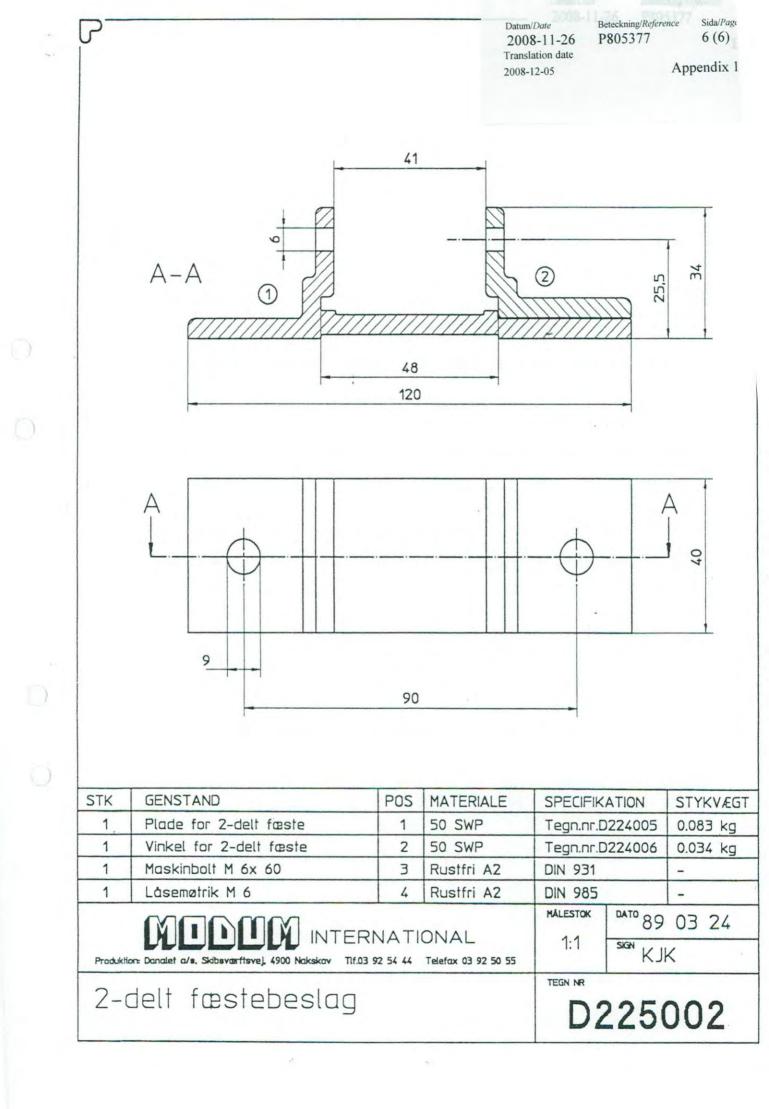






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Handled by, department Sven-Agne Nilsson Building Technology and Mechanics +46 10 516 52 15, sven-agne.nilsson@sp.se Date Reference
2008-11-26 P805377A
Translation date 2008-12-05

Page 1 (2)

Modum A/S Linköpingsvej 8 DK-4900 Nakskov DANMARK

Initial inspection wall ladder

(1 appendix)

1 Introduction

This report presents the results from the initial production inspection of Modum A/S.

Inspection date	2008-11-06
Place of inspection	The factory in Nakskov
Attendants	Anders Christiansen, Modum A/S Sven-Agne Nilsson SP

2 Products

Foldable wall ladder "Modum" according to SP certificate 23 17 01.

3 Inspection visit

3.1 General inspection

Material inspection and production were performed satisfactorily.

3.2 Inspection of the manufacturer's own inspection procedures

The manufacturer shall perform inspections of their own according to "Beskrivning tillverkning av räddningsstegen "Modum" vid Modum A/S", dated 2008-11-10.

SP Technical Research Institute of Sweden

Postal address SP Box 857 SE-501 15 Borås SWEDEN Office location Västeråsen Brinellgatan 4 SE-504 62 Borås SWEDEN Phone / Fax / E-mail +46 10 516 50 00 +46 33 13 55 02 info@sp.se Accredited inspection bodies are appointed by the Swedish Board for Accreditation and Conformity Assessment (SWEDAC). This report may not be reproduced other than in full, except with the prior written approval of SP.



REPORT

Date Reference 2008-11-26 P805377A Translation date 2008-12-05 Page 2 (2)

4 Assessment

The production and own inspection procedures by Modum A/S of wall ladders have been inspected and were found to be performed satisfactorily.

Issuing of approval is recommended.

SP Technical Research Institute of Sweden Building Technology and Mechanics - Solid Mechanics and Structures

Klas Johansson Technical Manager

Sven-Agne Nilsson

Technical Officer

Appendix

1. Description of the manufacturer's own inspection procedures

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

2008-11-10

Datum/Date 2008-11-26 Translation date 2008-12-05 Beteckning/Reference Sida/Page P805377A 1 (1)

Appendix 1

Modum A/S Linkøpingvej 8 DK-4900 Nakskov

T +45 5491 0060 F +45 5491 0069

mail@modum.dk

CVR nr. 10 13 36 53

4.1.3 Kontroll och proving

4.1.3.1 Mottagningskontroll

Vangeprofilernes eloxering efterses

Vangeprofilerne efterses for ridser o.l.

Kontrollerer længde på vangeprofilerne (fra 900 m.m. til 5400 m.m. med 300 m.m. interval) Pga. afskæring i top og bund købes vangeprofilerne hjem 100 m.m. længere end stigens standardstørrelse

4.1.3.2. Kontrol under tillverkning

Lokkemaskinen indstilles til inder eller yder vanger Renskæring af vangen i top Laskehuller lokkes i top Trinhuller lokkes med 300 m.m. interval Renskæring af vangen i bund Laskehuller lokkes i bund Tophætte, vægbeslag monteres på indervangen Trin monteres på indervangen med 6x47 m.m. bolte og 6 m.m. låsemøtrikker 1 stk. trinfjeder monteres på stiger fra 900 m.m. til 3600 m.m. 2 stk. trinfjeder monteres på stiger fra 3900 m.m. til 5400 m.m. Ydervangen påsættes med 6x 47 m.m. bolte og 6 m.m. låsemøtrikker Bolte og møtrikker efterspændes med boremaskine Huller bores ved 1. og 3. trin til låsepind Nylonskive limes på ydervange til låsepind Nylonforing sættes i trin til låsepind

4.1.3.3. Kontroll av færdig produkt

Stigen åbnes og blæses ren for spåner o.l. Stigen testes ved åbning til 90 grader og lukkes derefter igen.

4.1.5. Produktidentifikation - Mærkning

Modum labels påsættes i bunden af stigen

4.1.6. Hantering av færdiga produkter

Papmanchetter påsættes på vægbeslag Stigen pakkes ind i plastfolie

4.2.2 Provning

4.2.2.1. Provuttag

Modum a/s har fremstillet eget afprøvnings apparat til standardstiger Standardstigerne afprøves ca. 2 gange årligt Standardstigerne afprøves ved skift af leverandører

FABRIKATION OG SALG AF MODUM FACADESTIGER, SYSTEM, STEP-STEP OG KAMERAHUSE