

INSTRUCTIONS MANUAL

MADE TO MEASURE LADDERS

Guarantee and insurance certificate:

The undersigned company Frigerio Carpenterie S.p.A. guarantees for the ladder specified below and for a period of 10 years or a period of 5 years, starting from the purchase date, replacement or repair free of charge for parts resulting as defective due to materials or machining; it also insures against any damages caused to property or people caused by the same parts if ascertained as having left the production plant in defective condition.

The following are not included in this guarantee:

- defects or breakages and all consequences caused by misuse and/or lack of compliance, even if only in part, with that indicated in the instructions and/or that prescribed by the specific current standards.
- Damage caused by wear or atmospheric agents
- Interventions for presumed defects or convenience inspections

This guarantee is not valid in the case of mishandling or repairs carried out by persons not authorised by Frigerio Carpenterie S.p.A. or if carried out using non-original spare parts.

Ladder model: _____ Date of purchase: _____

Serial Number, if any -
Manufacture month/year:

Stamp and signature
of Retailer: _____



ICONTENT

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This manual is based on the provisions of Leg. Decree no.81 and pursuant to standard EN131-3

DECLARATION OF CONFORMITY

We declare that:

All ladders produced by us, including that accompanying this booklet, are manufactured in compliance with the Italian Presidential Decree n. 81 dd. 08/04/2008.

We also declare that to remain in order with previously stated standard, the use instructions labelled on the ladder, that is the warnings described in this booklet, must be strictly adhered to.

Orio Al Serio, 01 January 2020

FRIGERIO CARPENTERIE S.p.A.
Il Legale rappresentante

ADHESIVES AND PICTOGRAMS

The basic information is outlined in a clearly visible format on the adhesive of each ladder produced.

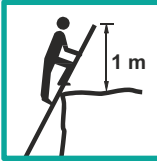
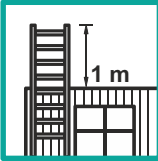
The square pictograms with a green or blue border illustrate a positive action to follow while the round pictograms with a red border illustrate a forbidden action.

N.B. If the adhesive is damaged or very worn, you can inform our office to request a new one

Secure the base and top of the ladder



Minimum extension of the ladder over the arrival point



Read the instructions



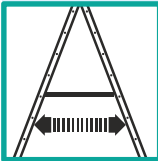
Maximum permitted load



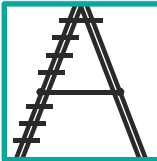
Check intactness of the ladder support feet



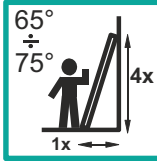
Ensure the ladder is fully open



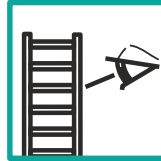
Ensure all the safety devices against accidental opening and closure are activated and locked



Correct support angle



Visual inspection before use



Maximum number of users on ladder



Use the ladder with the correct orientation



Do not stand on top step



Position and use the ladder on flat ground



Do not use the ladder as a bridge



Do not hang over it sideways and keep the centre of gravity at the centre of the ladder



Pay attention to electrical hazards when using and transporting the ladder



Ensure there is no dirt, water or oil on the ground



Position and use the ladder on solid ground



Ensure the top of the ladder is correctly positioned



Do not climb down the sides of the ladder to access raised surfaces



Turn towards the ladder both when climbing up and down it



Access to the climbing ramp is permitted to one person at a time



GENERAL USE WARNINGS

Before use:

- Ensure you are physically fit enough to use the ladder. Certain medical conditions, use of medicine, or abuse of alcohol or drugs could make use of the ladder unsafe
- If the ladder is transported on a roof rack or a truck, ensure it is correctly positioned to avoid damage;
- Inspect the ladder after delivery and before first use to check the conditions and operation of all its parts;
- Visually inspect the ladder is not damaged and that it can be used safely at the start of each working day;
- For professional users, regular periodic inspection is required, at most every 100 hours of use;
- Ensure the ladder is suitable for the specific use;
- Do not use damaged ladders;
- Remove every trace of dirt, such as fresh paint, mud, oil or snow from the ladder;
- Before using a ladder in the workplace, a risk assessment should be carried out in compliance with legislation in the country of use.

Positioning and assembly of the ladder:

- The ladder must be assembled in the correct position, i.e. with the correct angle for a leaning ladder (between 65° and 75° with a ratio of 1:4) and completely open for a double ladder; If the ladder is equipped with flat or deep steps over 5 cm, the ladder should be positioned to keep the steps in the horizontal position
- The anti-closure and anti-opening safety devices if planned, must be completely blocked before use;
- The ladder must be on a flat, horizontal and non-moving base;
- A leaning ladder must rest against a non-fragile surface and be secured before use, for example tying it or using a suitable stabilisation device
- The position of the ladder must never be changed from above;
- When the ladder is positioned, remember the risk of collision with it, for example, with pedestrians, vehicles or doors;
- Identify all the electrical risks in the work area, such as lines or other exposed electrical equipment;
- The ladder must rest on its feet and not on the rungs or steps;
- The ladder must not be positioned on slippery surfaces (such as ice, polished surfaces or very soiled solid surfaces), unless suitable measures are taken to avoid the ladder slipping or ensure sufficient cleaning of the dirty surface.

Using the ladder:

- Do not exceed the total maximum load for the type of ladder;
- Do not hang off the ladder; the user's belt buckle should be inside the upright on both feet on the same step/rung during the entire operation;
- Do not leave the ladder to access another location at a height without additional safety, such as a tying system or suitable stabilisation device; do not use double ladders to access another level;
- Do not stay on the three highest steps/rungs of a leaning ladder;
- Do not stay on the two highest steps/rungs of the double ladder without a platform and body-guard;
- Do not stay on the four highest steps/rungs of a double ladder with cantilevered section or however not beyond the top of the scissors/stand/intersection of the round sections. Use the cantilevered section as a handhold only;
- The ladders should only be used for light and short works;
- Use non-conductive ladders to carry out works on live electrical parts;
- Do not use the ladder outdoors, in bad weather conditions such as strong wind;
- Take precautions to avoid children playing on the ladder;
- Secure the doors (except the fire-escape exits) and the windows, where possible, in the work area;
- Face the ladder when climbing up and down;
- Keep a safe grip on the ladder when climbing up and down;
- Do not use the ladder as a bridge;
- Wear suitable footwear to climb on the ladder;
- Do not spend long periods of time on the ladder without regular breaks (tiredness can contribute to risk);
- Leaning ladders used to access a higher level must extend by at least 1 metre over the arrival point, as well as be anchored to a fixed part as outlined in Legislative Decree no.81 from 2008;
- The equipment transported on the ladder must be light and manageable;
- Avoid excess side loads, for example lifting packs that are too heavy;
- Avoid operations requiring application of side thrust such as solid material perforation (bricks-cement) on leaning and double ladders, if not compliant with standard EN131-7 and however within the terms planned by the standard (not over 30 kg. horizontally);
- Maintain a support while using the ladder, or implement the safety precautions if this is not possible;
- The length of the ladder must not be increased by tying together multiple ladders or fastening extensions on the uprights;
- Do not use a double ladder as a support (so-called scissors or stand).

Ladder demolition:

- Ladders must not be disposed of in the environment, but delivered to the specific, authorised collection centres.

Repair and cleaning:

- Repairs must only be carried out by competent staff, compiling the following data sheet. Contact the Frigerio dealers or directly contact Frigerio Carpenterie S.p.A. on 035-4242311.
- Ladders must be cleaned with a damp cloth using water or alcohol.

Date	Intervention description	Technical signature

MAINTENANCE and CONTROLS

Our aluminium or fibreglass ladders do not need any particular maintenance or periodic servicing, but you are recommended to take note of the general warnings in this manual and the specific use instruction for the model used, described on the following pages and keep the ladders away from atmospheric agents, oxidants and corrosive substances. You are also advised to safeguard ladders to avoid improper use. The manufacturer cannot be held in any way liable for damage to people or property which can derive from improper use of the ladders and total or partial non-compliance with the standards outlined in this manual and those in force, or non-compliance with periodic controls or maintenance against possible damage caused by use or atmospheric agents.

For this reason, AT LEAST EVERY 100 HOURS AND BEFORE EACH USE, CAREFULLY CHECK THE ELEMENTS ARE INTACT and, if necessary, signal any deficiencies found to your manager (Art. 18-9-20 Leg. Decree no.81: worker and supervisor obligations) and comply with the provisions of safety legislation.

Date of inspection day/month/year	Ladder model article code	Components checked yes/no	Components cleaned yes/no	Rungs and uprights intact yes/no	Feet intact yes/no	Anti-extension and anti-opening devices intact yes/no	Welding intact yes/no	No rust yes/no	Stickers intact yes/no

USER TRAINING and INFORMATION

In compliance with the provisions of Art. 36, 37 and 73 of Legislative Decree no.81 on 9 April 2008, I declare to have consulted the manual outlining the instructions for use and maintenance of the ladder and I am therefore informed and trained in the health and safety risks, on the safety measures and the hazards relating to its use.

Date	Operator's name and surname	Operator's signature	Company stamp and signature

ATTENTION ! - Before using the ladder, read and understand the general provisions outlined from page 2 to 5



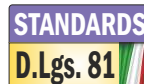
SPECIFIC INSTRUCTIONS FOR USE OF PORTABLE LADDERS OR LADDERS ON WHEELS

HANDRAILS, RAILINGS AND GATES

All ladders with working platform at a height greater than 1 m. must be equipped with a standard complete handrail and railings with a handrail tube at least 1 m. high. and intermediate tube approx. 0.5 m. high in accordance with Legislative Decree no. 81 of 2008.

When the ladder has at least 1 open side (without handrail and/or without railing), the ladder can only be used when it is next to the working surface and it must be anchored to a fixed part (see Fig.1).

In order to comply with European standard EN131, portable ladders must be equipped with complete handrails and railings made of profiles at least 32 mm wide.



LADDERS WITH FLOOR HEIGHTS OVER 2 M.

Each ladder in place with platform height over 2 m. off the ground must be anchored in accordance with Legislative Decree no. 81 of 2008 to avoid the danger of overturning (see Fig.1).

Excluded from this obligation are ladders certified or manufactured in accordance with European anti-overturning standard EN131-7 and when work operations generate horizontal thrusts of up to a maximum of 30 kg.

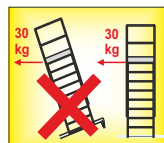
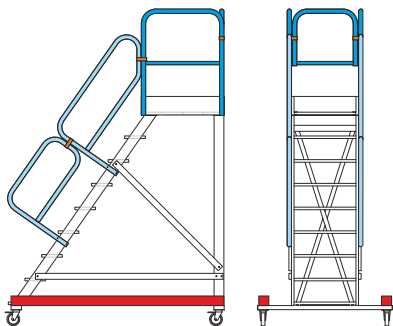
LADDERS WITH ANTI-OVERTURNING BALLAST

These are ladders equipped with a side or front cantilever platform or ladders manufactured in accordance with the European anti-overturning standard EN131-7 or equivalent standards NFP93-352 - NFP93353

WARNING: Before using the ladder check that:

- The ballast is securely attached to its housing and that this is securely attached to the base of the ladder,
- The total kg. of the ballast applied to the ladder must be the same as indicated on the technical drawing provided,
- The tool or working machinery used is not capable of generating horizontal thrusts of more than 30 kg by analysing the relative user manual

Note: Do not exceed the maximum capacity of the ladder of 150 kg. unless otherwise specified by the manufacturer



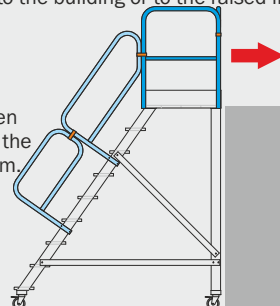
ACCESS TO RAISED FLOORS

In order to use the ladder as a means of access to raised floors, with front or side exit, in addition to having a standard open passageway at least 60 cm. wide, the ladder must be anchored to a fixed part and positioned in accordance with Legislative Decree no. 81 of 2008 (see Fig.1).

Ladders with an open passageway may only be used alongside the work surface, except when the ladder is fitted with a complete handrail and SCS CANCELL opening gate capable of restoring standard protection.

[Fig. 1] Legal obligation according to Italian law Leg-Decree no. 81

- The ladder must be anchored to the building or to the raised floor to which access is intended.
- Access to raised floors is only permitted if there is suitable fall protection.
- The maximum distance between the last step of the ladder and the exit floor shall not exceed 20 cm.
- The maximum difference in height between the last step of the ladder and the exit floor must not exceed 25 cm.

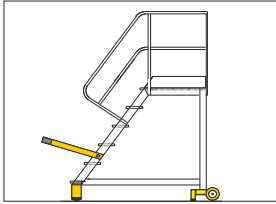


ATTENTION ! - Before using the ladder, read and understand the general provisions outlined from page 2 to 5



WHEEL LOCKING, DEVICE WITH SELF-DEACTIVATING BRAKE AND SELF-BRAKING PADS

In accordance with Legislative Decree No. 81 of 2008, before climbing a ladder, it is always necessary to check that the ladder brake is activated. There are various braking devices:



For ladders equipped with 2 wheels, self-braking stabilizer bases with wheelbarrow movement are foreseen in which the brake is automatically activated when the ladder is placed on the ground and is automatically deactivated when the ladder is moved by wheelbarrow using the special movement handles.



For ladders equipped with 4 wheels, the brake is activated and deactivated via the front tab with the foot protected by a work shoe.



For ladders equipped with self-deactivating wheels, 4 wheels with springs are foreseen in

which the brake is automatically activated when the operator gets on the ladder and automatically deactivated when the operator gets off the ladder. (Note: These devices are very delicate and sensitive to dirt and with use the springs tend to lose their effectiveness so they must be checked frequently and always kept clean and lubricated)



For ladders equipped with an "ANTI-INTRUSION BRAKESYSTEM" the brake is activated by pushing forward the appropriate lever to allow the ladder to rest on the ground on its own feet, while the brake is deactivated by pulling the appropriate lever through which the ladder rises from the ground to be easily moved like a trolley on 4 wheels.

SPECIFIC OPERATING INSTRUCTIONS FOR FIXED OR OPEN LADDERS

HANDRAILS, RAILINGS AND GATES

All fixed ladders or open ladders with exit level higher than 1 m. in accordance with Legislative Decree no. 81 of 2008 must be equipped with:

- Standard handrail with handrail tube at least 1 m. high. and intermediate tube approx. 0.5 m.
- Standard railing with handrail tube at least 1 m. high. and intermediate tube approx. 0.5 m. and a toe board at least 150 mm. high in correspondence with the terminal landing platform, if any, as well as with the intermediate platforms, if any

When the ladder is installed next to a wall, the Italian standard Legislative Decree no. 81 allows to avoid the installation of railings and handrails on the side of the ladder next to the wall, but the European standard EN14122 instead requires installation of all handrails and railings also on the side next to the wall.

In order to comply with European standard EN14122, fixed ladders must be equipped with complete handrails and railings made of profiles at least 42 mm. wide.

LADDER FIXING

The ladder can only be used if it is properly secured in accordance with the requirements of Legislative Decree no. 81 or EN14122.

Attach the ladder to the top (always mandatory):

- in case of floor or hooks over-extended on the floor use plugs suitable for the type of masonry 10-14,
- in case of a vertical wall plate, use plugs suitable for the type of masonry 12-14 then check the minimum guaranteed hold for each plug is not less than 300 kg;

Fix the ladder to the ground (optional unless otherwise specified) using 10-14 mm plugs suitable for the type of masonry, then check the minimum guaranteed hold for each plug is not less than 300 kg;



Reference Standards

From legislative Decree no. 81 dated April 9, 2008

Art. 111. Employer obligations in using equipment for work above ground

1. The employer, when temporary work above ground cannot be performed in safety conditions and adequate ergonomic conditions from a place suited for this purpose, selects the most appropriate work equipment to guarantee and maintain safe work conditions.. <omissis>
3. The employer ensures that a ladder is only used as an above ground workplace when the use of other work equipment considered safer is not justified due to the limited risk level and short-term use or site features that cannot be modified.. <omissis>
5. The employer, according to the type of work equipment adopted based on the previous points, identifies measures to minimise worker risks, intrinsic to the equipment in question, installing, where necessary, fall protection devices. These devices must have a configuration and resistance to avoid or stop falls from above ground work sites and prevent, where possible, any worker injuries. Group protection devices against falls may only include interruptions in points where there are ladders or rungs.
7. The employer only performs temporary work above ground if weather conditions do not put workers' safety and health in jeopardy.
8. The employer also prohibits workers assigned to above ground work from drinking or administering alcohol or hard liquor.

Art. 113. Ladders

3. The simple ladders (carried by hand) must be manufactured by proper material for their use, they must be strong enough as a whole and in every single element and they must have proper dimensions for their use... <omissis>
They must have also:
 - a) non-slip devices on the top and on the bottom of the two uprights.
 - b) Holding hooks or non-slip elements on the top parts, when it is necessary to fix the stability of the ladder
4. For ladders that are equipped with holding devices on the top, even if sliding on rails, the safety devices stated in the letters a) and b) paragraph 3 are not required.<omissis>
5. When the use of the ladder, due to its height or to other reason, causes danger of instability, it must be insured or hold to the foot by another person.
6. The employer shall ensure that the rung ladders are placed in a proper way so that to ensure the stability during their use and following these points: a) the portable rung ladders must be placed on a fixed and strong support. This support must have proper dimensions so that to ensure the horizontal position of the rungs; b) the rung hanging ladders must be fixed in a safety way and, rope ladders a part, in order to avoid any kind of change of position and oscillating movements; c) by using a portable rung ladder, the sliding foot must be prevented by fixing the upper or the bottom part of the uprights, or by using any other non-slip device or any other efficient solution; d) the access rung ladders must be long enough in order to overpass the access level unless there is another device that can grant the safety access; e) the rung ladders composed by different elements must be used so that every element is well fixed; f) the mobile rung ladders must be fixed permanently before to be used.
7. The employers ensures the rung ladders are used so that the operator has in every moment a safety handling support. In particular by carrying a weight on a rung ladder, the operator must always have a safety handle.
8. To use the portable extendable ladder of two or more elements (like the Italian version or similar), in addition to what stated into the paragraph n.3, it is compulsory to follow these points:
 - a) the extended length must not be more than 15mt, except for particular situation and in case the top part of the ladder must be ensured to fixed supports.
 - b) The extended ladders, that are longer than 8, must have the section divider in order to reduce the swaying movement of the ladder.
 - c) No employer must be on the ladder during the lateral movement of the ladder itself
 - d) During the execution of the work, another ground person must pay attention to the ladder.
9. The double ladders must not overpass the 5 mt of length and they must be equipped with chain or some other device that prevent the opening of the ladder over the safety limit.
10. It is allowed the dispensation of manufacturing aspect for the paragraph 3,8 and 8 for the portable ladders that are in compliance with the attachment XX (Cfr. En131).

Please note: by working on ladder at more than 2 mt of height, it is advisable to be ensured against falls (for example by adopting Italian Presidential Decree Ce harness secured to fixed elements).



The «CE» mark cannot be applied to step-ladders, ladders and scaffolds, since they are not covered by the Machinery Directive.

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