IMMOOS
Evacuation and safety solutions

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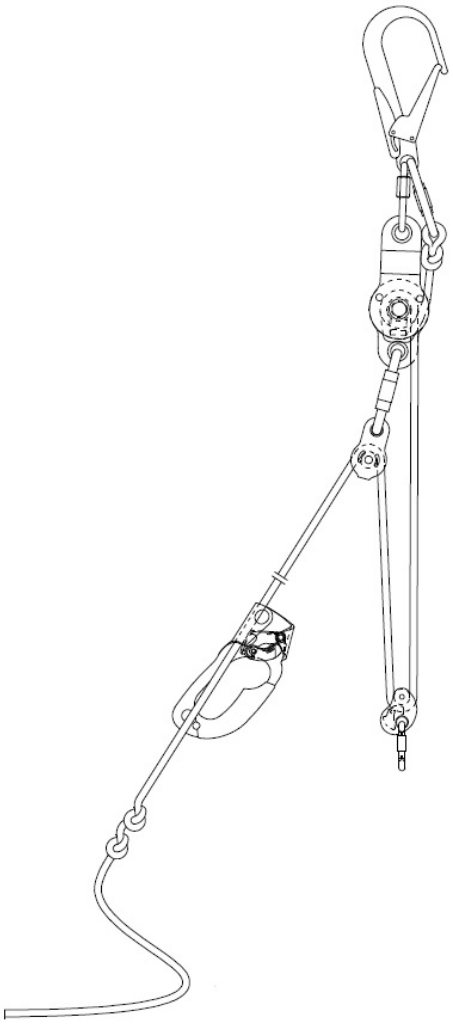
Operating instructions
IMMOOS
Ascending and Lowering Device
Type „STOPBLOC 2“

Integral part of the operating instructions:
„GA_EN_Bergungssystem_BR_Tirol“
„GA_EN_Bergungssystem_Typ_C“
„GA_EN_1-Personen Bergungssystem“



Inhalt

1. Important information

These operating instruction relate to the IMMOOS Ascending and Lowering Device „STOPBLOC 2“. Please read through these operating instructions carefully and keep all product instructions and information.

Activities at high altitudes are dangerous and can lead to serious and even fatal injuries. It is solely your responsibility to learn the user and safety precautions. Only medically appropriate persons are allowed.

The IMMOOS Ascending and Lowering Device „STOPBLOC 2“ may only be used by instructed and trained, expert personnel.

The end of the rope must have 2 safety knots placed 0,5m from one another. For your own safety, never let go of the feeding rope during lowering and **always use gloves** (see point 4).

The parts (IMMOOS „STOPBLOC 2“ pulley, the EVAC-Static Rope and Mösi Rope Brake) must be used together as a unit. Unauthorized usage of any part thereof requires prior consultation with the manufacturer.

If using a braking unit other than the Mösi Rope Brake, the instruction manual of such other unit should be followed closely.

Instruction manuals of the various products being used in conjunction with the IMMOOS Ascending and Lowering Devices „STOPBLOC 2“ must be carefully studied and adhered to by any users of such.

No modifications may be carried out on parts.

Before usage all devices and units must be visually inspected to ensure that the material used is functioning and complete. All materials are to be checked on an annual basis according to EN 365.

The annual expert inquiries and the roping work are sequential to document!

In the event of a serious accident or if the IMMOOS Ascending and Lowering Device „STOPBLOC 2“ itself falls down or a heavy object falls onto it, the device may no longer be used. A deformation can impair the function of the sliding vehicle or internal non-visible fractures can reduce its strength.

All the parts mentioned here are to acquire by IMMOOS GmbH.

Important: In use, the IMMOOS Ascending and Lowering device must be hanging free, never let it be touched by an other object.

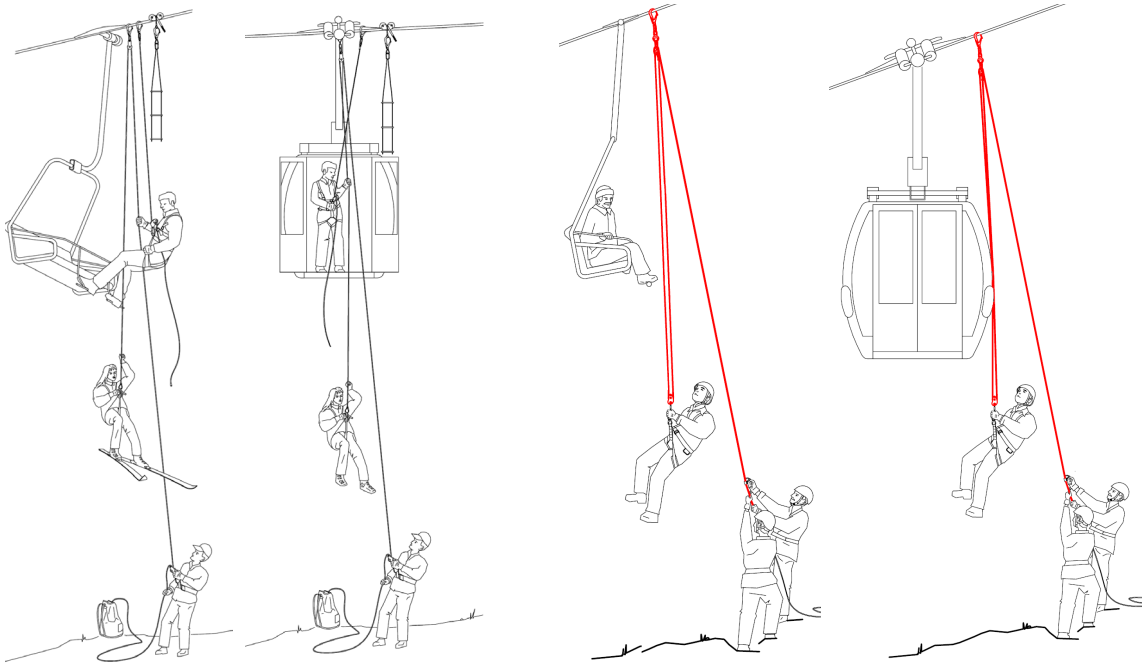
2. Technical Details

Device Class:	Classe A
Test Standard:	EN 341
Lowering Height:	max. 450 m
Rope Load:	max. 1 Person
Draw-up Load:	max. 1 Person
Usable Rope:	9 mm Evac-Static
Dead weight: Rope Deflection: Rope Brake (Mösi)	 ca. 0.6 kg ca. 0.3 kg
Permitted rope brake and deflector model STOPBLOC 2:	rope brake type Mösi Demi Antipanik rope brake type Petzl Stop type Moduleur

3. Area of usage

Lowering

Ascending



The IMMOOS Ascending and Lowering Device „STOPBLOC 2“ is mainly for the rescuing of persons from aerial ropeways (chairlifts and gondolas) and is capable of ascending and/or lowering such persons.

Should a rescuer need to ascend, additional deflection pulley can be used for easing expendable energy.

The Ascending and Lowering Device is a unit comprised of the „STOPBLOC 2“ Rope Deflector, the Mösi Rope Brake, a 9mm EVAC-Static Rope, and additional deflection pulley for ascending.

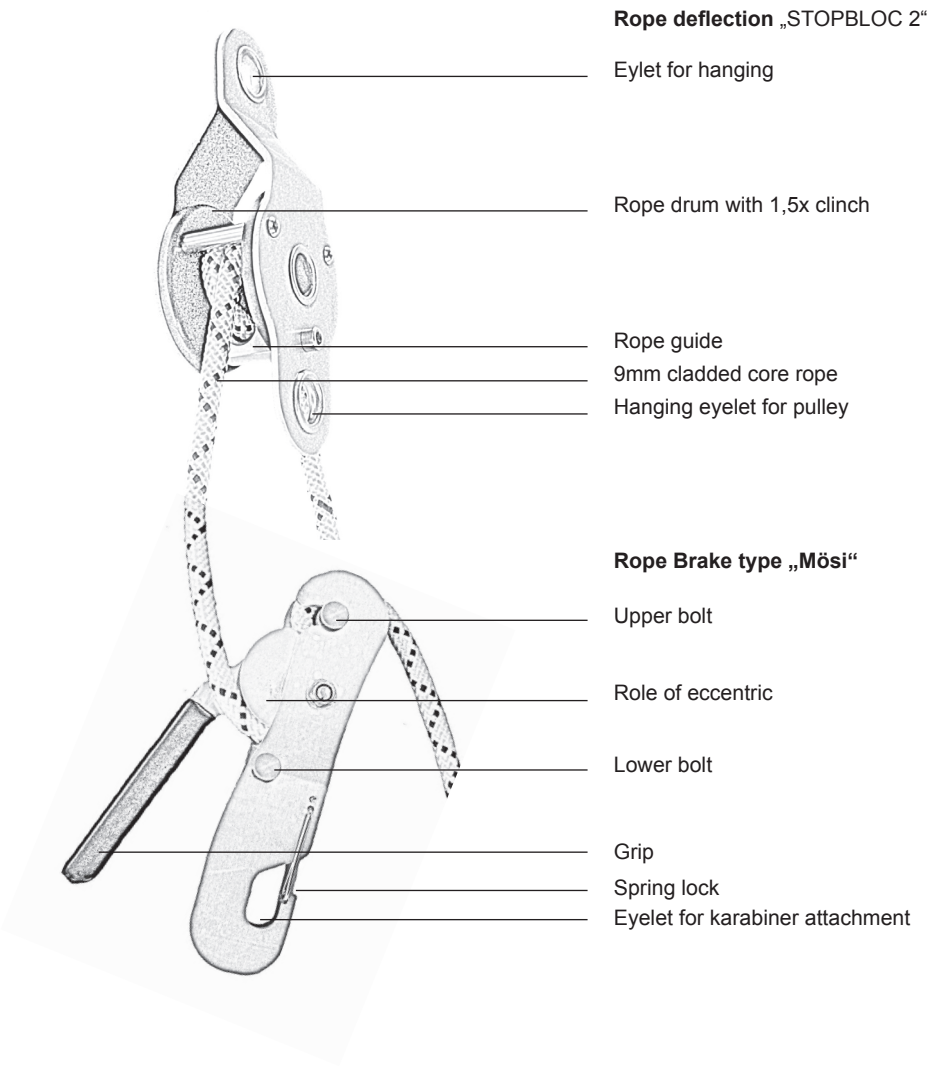
The lowering procedure can be stopped at any time using the Mösi Rope Brake **(with gloves).**

Mini Traxion hinders possible drops of the load during pauses when ascending.

The attachment of the IMMOOS Ascending and Lowering Device „STOPBLOC 2“ have to be at a suitable anchor-point according to EN 795.
The attachment of the Mösi rope brake have to be at a suitable anchor-point (i.e. retaining/safety belt EN 358, body harness EN 361, sitting harness EN 813).

Important: In use, the IMMOOS Ascending and Lowering Device „STOPBLOC 2“ must be hanging free, never let it be touched by an other object.

4. Description of the lowering function



The rope is looped twice around the IMMOOS rope pulley, resulting in a 1,5x clinch. Through this clinch, the retention at rope‘s end is reduced to 1/3 of the lowering weight.

The included rope brake allows for the lowering speed to be regulated according to the intensity of pressure applied to its grip.

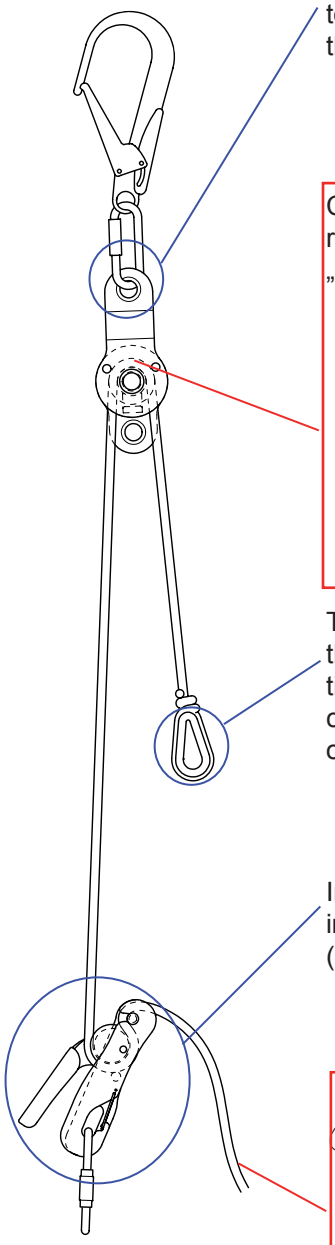
The role of eccentric is automatically raised when pulling on the loaded rope‘s end. This rope is then jammed between the role of eccentric and the upper bolt. This will stop the lowering procedure. By usig the grip, the rope is let through in a controlled manner.

When the grip is squeezed too tightly, the rope will be pushed through the Role of eccentric on the lower side of the bolt. This will stop the lowering procedure.

This eyelet is used for karabiner attachment.

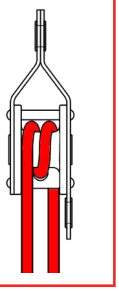
5. Lowering

Parts required
1x aluminium safety hook
1x screw link
1x „STOPBLOC 2“ with 9 mm rope
1x rope brake
1x fixing loop



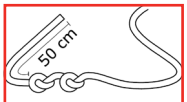
Attach „STOPBLOC 2“ to screw-link by using the safety-hook.

Course of the rope in the „STOPBLOC 2“:



The load is hooked to the knotted end connection (i.e. using a safety carabiner and evacuation harness)

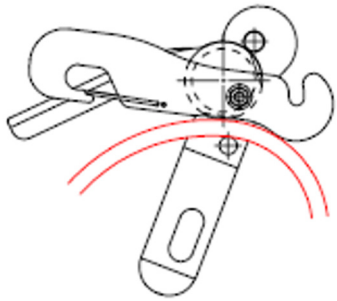
Insert the ballast rope into the rope brake (point 5)



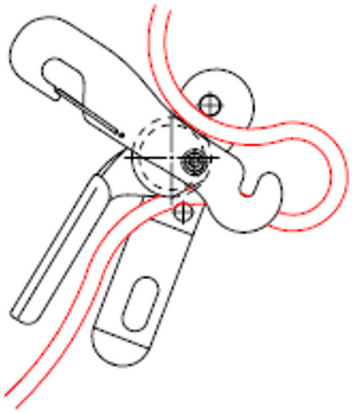
The rope end is to provide with two safety device knots, in the distance from 0.5m of the rope end.

Note:
The attachment of the rope brake for the lowering have to be at a suitable anchor-point (i.e. retaining/safety belts EN 358, body harness EN 361, sitting harness EN 813)

6. Feeding the rope into the „Mösi“ Rope Brake



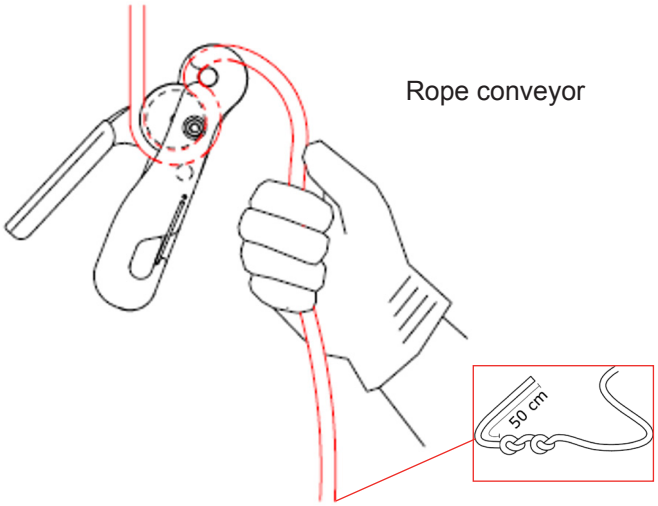
Lower rope feed



Upper rope feed

Insert the rope and close the rope brake (according the drawing) using a karabiner. Make sure the safety stop (spring) closes around the locking karabiner.

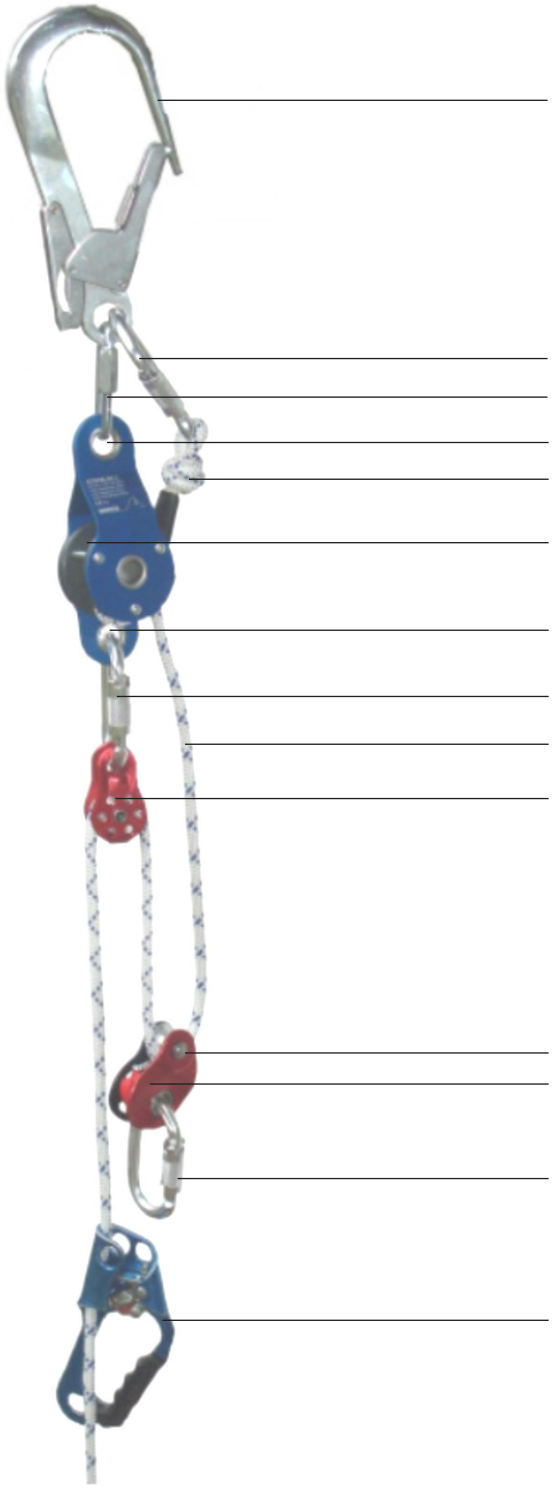
Stressed strand



Rope conveyor

Check to make sure the end of the rope is knotted for safety.

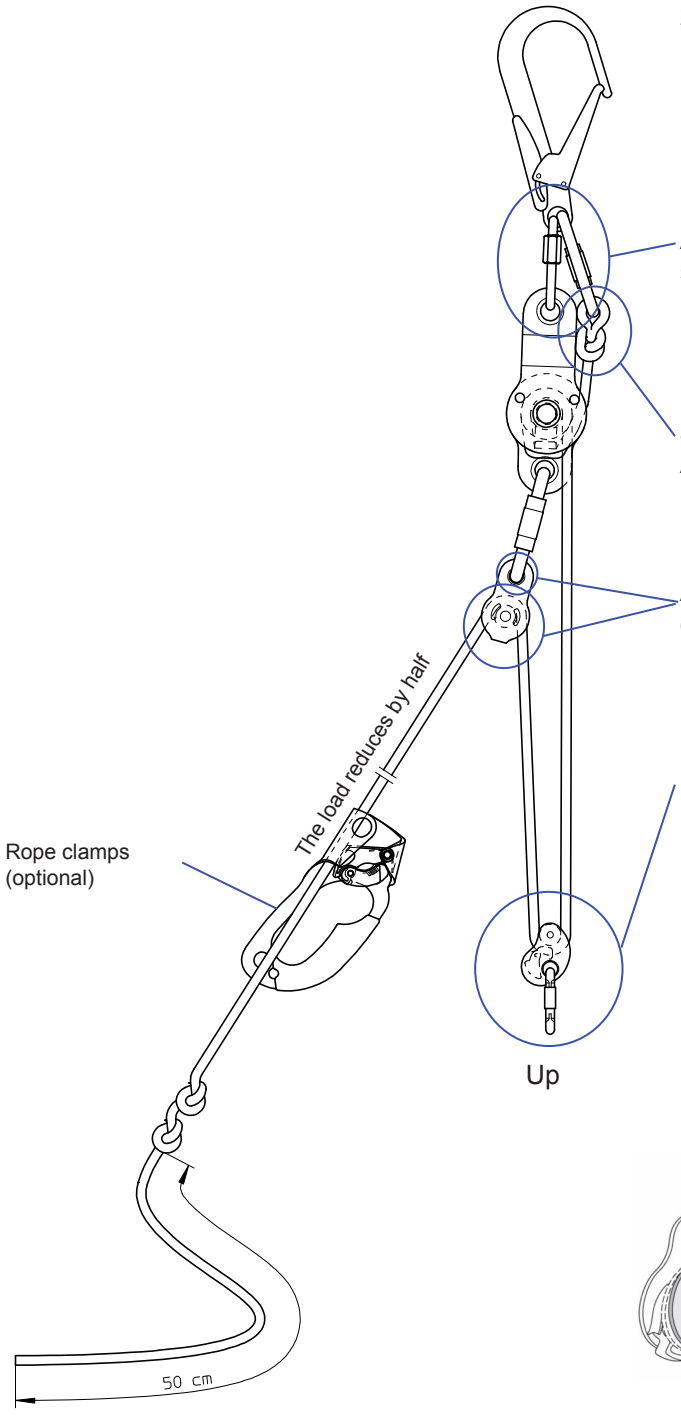
7. Functional description for Ascending

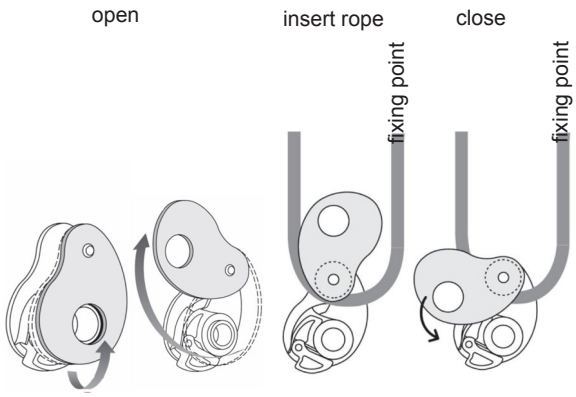


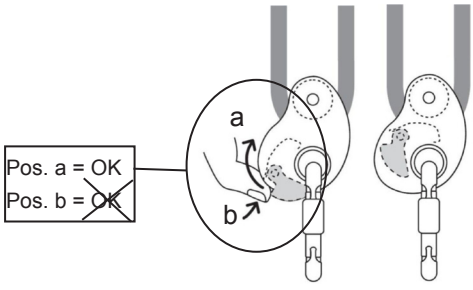
With additional parts the „STOPBLOC 2“ can also be used as a pulley system. Such would reduce the load by 50% allowing the ascending of a person. The Mini Traxion‘s integrated clamping-mechanism hinders possible drops during pauses.

8. Ascending

Additionally required parts:
2x Carabiner
1x Deflection pulley
1x Pulley with integrated progress capture device „Mini Traxion“
1x Rope clamps (optional)







9. Storage and Cleaning

Store the IMMOOS evacuation carriage type C in a dry area without extreme temperature flucruations.

Avoid contact with acids, corrosive liquids and oils.

Clean if necessary after the employment or contamination. Clean using gentle soap and much warm water (max. 30° C).

Always dry naturally, i.e. never near fire or other sources of heat. Excess water should be wiped away using a clean towel.

Do not store near batteries.

10. Examination / Maintenance / Repair

For this reason, the following time periods for inspection, cleaning, maintenance and repairs must be observed:

• Each time before use	Visual examination (inspection) by the user
• At least once per year	Examination (inspection) by approved specialist (Exception Austria: In accordance with Regulation relating to Operating Material)
• Reaching the maximum work load:	Maintenance by the manufacturer or one of it authorized person or at the latest after 8-10 years

Visual examination (inspection)
Each time before using the evacuation carriage, it must be examined visually by the user, that all screws are tightened and singular parts do not show any sign of specific wear or tear.

Damaged or incomplete devices must not be used.

Annual examination (inspection)
Examinations (inspections) must be carried out and documented by an approuved specialist at least once per year

The annual examination (inspection) basically comprises:
- Visual inspection of all individual parts
- Functional test
- Entirety
- Longevity

In case of doubt, an inspection and maintenance must be carried out by the manufacturer and or its appointed agent/representative.

Maintenance upon reaching the maximum work load (rope work)
The IMMOOS Ascending and Lowering device type „STOPBLOC 2“ must be serviced by the manufacturer or its authorized agent after reaching its maximum work load (7‘500‘000 J) or at the latest after 8-10 years.

The maximum work load (roping work) is calculated as follows: W = m . g . h . n

W	=	maximum work load (or rope work) in J
m	=	mass in kg (80kg with aerial ropeways)
g	=	acceleration of the fall 9,81 m/s2
h	=	lowering height in m
n	=	number of persons lowered

Overhaul and rope exchange
Repairs at the devices may be implemented only of the manufacturer or one of it authorized person.

The rope is to be exchanged as follows:

- damaged ropes	replace immediatly
- uses rarely or never (aging)	after 8-10 years
- after rich the rope working	7‘500‘000 J

The rope is a special rope. It can only be inserted with the certified EVAC-Static rope 9mm. The exchange may take place only via the manufacturer or one of it authorized person.

11. Disclaimer

Die IMMOOS GmbH disclaims all responsibility and liability for damage if accidents or damage are due to:

- Non-compliance with statutory and official regulations
- Non-compliance with regulations or contractually agreed conditions of IMMOOS GmbH
- Non-intended use of the IMMOOS Ascending and Lowering Device „STOPBLOC 2“
- Unauthorized modifications carried out on parts of the device
- Replacement of the parts by other materials
- Additional loads of the parts
- Parts that were not designed, manufactured and supplied by IMMOOS GmbH
- Sabotage, military events and cases of force majeure

12. Documentation of the Annual Expert Inspection

Proof of the accomplished roping work.
(Fill out 1 sheet for each product)

Product: **IMMOOS Ascending and Lowering Device „STOPBLOC 2“ Nr.: .....**
.....

Rope Brake Nr.: .....

Owner: .....

Purchase date: **Date of first usage:**

..... **.....**

Date	Lowring height in m	Number of persons to be lowered	Roping work in joul- calculated from: 80 x 9.81 x lowering height x number of persons to be lowered	Authorized signature

13. Documentation of record of Inspection

Prescribed proof of the accomplished examination (EN 365):
(Fill out 1 sheet for each product)

Product:	**IMMOOS Ascending and Lowering Device**	**„STOPBLOC 2“ Nr.: .....**
		Rope Brake Nr.: .....
Owner:	**.....**	

Purchase date:	**Date of first usage:**
.....	**.....**

Date	Notification of recognized deficiencies	Authorized signature

14. Notes

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