

Gebruiksaanweisung Operating Instructions

*Stand: September 2019
September 2019 Edition*

- Long-Ready-195-

- Systembeschreibung*
- Gebrauchsanweisung*
- Kurzanleitung*



- Long-Ready-195-

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HFH

Long-Ready-195

„Genius II“

Identical with **Genius II** as regards preparation. Handling security through conformity as regards structure of the products. Excellent opening results when used on safety doors of well-known manufacturers.

What is new?

- **A PE coating on both sides**, to keep dry.
- **Double tube**, double damage proof.
- **Threading aid for blasting** cord, two threads, **RED** and **BLUE**.

We recommend the use of blasting cord, which is threaded into the system according to charging variation **RED** and **BLUE**.

Finally, only water has to be filled into the tamping and the tube be tied with a knot.

What exactly is the difference between **Long-Ready-195-** and **Genius II** ?

There are only two differences:

1. The products are identical, however differ in length.
2. The products are identical, however differ in the fixing to the medium (medium: the obstacle that is to be removed)

Genius II -Long-Ready-195-

Measurement: 7 x 7 cm x 195 cm,
Filling weight max. app. 8,6 litres,
application no. „B“
Filling weight max. app. 9,4 litres,
application no. „A“

Genius II:

Measurement: 7 x 7 cm x 100 cm,
Filling weight max. app.. 4,4 litres,
application no. „B“
Filling weight max. app.. 4,8 litres,
application no. „A“

Application No. B.



„Blue Thread“

Choose **application „B“**

when the medium consists of thin-walled metal sheet, e.g. fireproof doors (iron sheet), doors made of zinc plate or aluminium plate, etc.

We recommend using this possibility.

In this case, the water **W 1** is in front of the explosive. Only the water **W 2** serves as a cushion.

Advantages:

- Pressure over a large area
- Reduction of the number of fragments
- Reduction of the speed of the fragments.

Disadvantages:

- Higher amount of charge for **Application No. A** (measured by the success in opening)

„Application No. A“



„Red Thread“

In this mode of charged the concentrated force of the blasting cord is available on a small area in the proximity to the object. The whole amount of water **W1** + **W2** now serves as a tamping mass. This variation is clearly more aggressive than the **Application No. B.**

Advantage:

Reduced amount of explosive (measured by the opening success)

Disadvantage:

According to the material used, there will be a significant increase of the number of explosive fragments, and, simultaneously, an increase of the speed of the explosive fragments, especially in the case of wood, plastics or similar materials.

Choose when the medium consists of thick-walled materials, profiles and/or plates, especially doors with multiple bolt systems, safety doors, etc.

Also choose **application „A“** when a separation (cutting) of a material is desired, e.g. wooden doors, wooden frames, glass blocks, lightweight aerated cement walls, etc.

Long-Ready-195:

The classical fixing of **L-R-195** on doors is always on the side with the suspensions or hinges.

PE coating
on both sides

As a rule, the best effect will be obtained on this side.

Certainly **L-R-195** may also be fixed on the side with the lock.

A combination of **Speed II**, and / or **Genius II** is also possible, i.e. depending on bolting and medium it might even be necessary.

Hightech safety door



Variante Nr. „A“

Caution:

We advise against:

Using **„L-R-195“** for the first time at an intervention.

Extremely reducing or increasing the amount of the charge.

The tamping consists of cardboard and polyethylene, thus producing almost no fragments.

Basically there is always a risk at any explosive blast.

Urgently observe:

The danger zone*)

Door parts (e.g. handles or locking mechanism) may become projectiles.

Overcharging may cause a great number of fragments.

Please refer to the instructions for use.

Packaging:

One packaging unit (VPE) is comprised of:

- twelve small packages
- weight 18,5 kg
- measurement: 200 x 33 x 30 cm

Please visit our workshop on the internet**):

www.hfh1.eu

*) according to national legal regulations

**) access code required

Long-Ready-195

Operating Instructions



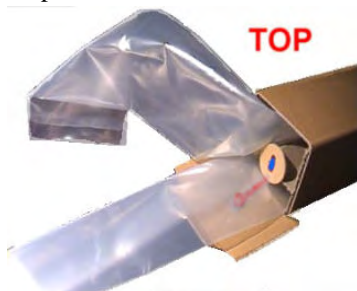
„L-R-195“ is largely ready for use. No matter which variation of charge was chosen, the water is **always** led in the PE tube according to the principle of “communicating tubes”. For an optimized handling, please note the following instructions:

1. Remove the PE protective cover from „L-R-195“. Remove both threads (red and blue) at the lower end of the tamping and open the lower clasp.
2. Now open the upper clasp with one finger.



Tip: Extract red thread something before.

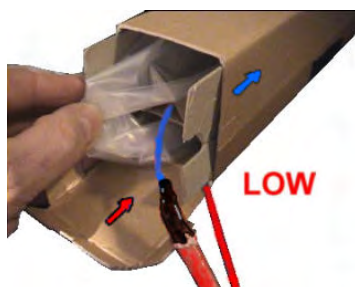
.Now pull out the ends of the tubes.



Information:

For damage proof two PE tubes were tied together to one tube. Please note that only the internal tube is filled with water.

3. Go back to the lower end. Now you can choose between two variations of charge:



First the variation

No. B, „Blue Thread“

- preloaded with water

Note: Carefully move the PE tube to the left, if you want to pull out the blasting cord later to the **right** . (optionally left).

In doing so, please do not damage the PE tube.

Tie the selected amount of explosive with tape to the **blue thread** at the lower end of the cord.

Recommendation: Cut the blast cord to a standard length of 206-210 cm. If necessary, the blasting cord can be drawn in double. In this case do not use too much tape, otherwise the opening will be too small for the blasting cord.

Set apart the upper ends of the tube. Now pull at the **blue thread**, watching this process carefully, until the blasting cord appears at the upper edge of the tamping.

Fix the blasting cord with tape, so that it cannot return into the system. Now remove the **blue thread**.

Now return to the lower clasp. Press out one of the perforated area with your thumb.



Now introduce the blasting cord in this opening. Close the lower clasp and fix it with tape.



„L-R-195“ is now ready for filling.

The detonating fuse will be attached to the blasting cord appearing at the lower end, at the very end of the process.

4. No. A „Red Thread“

- without preload of water
You will use the same principle as in **variation No. B.**

Exception:

You now fix the blasting cord to the **red thread**.



Beside the upper fixing of the blasting cord, now also a lower fixing with tape will be required,



so that the blasting cord will be positioned in the middle of the tamping as exactly and firmly as possible.

Please consider the tamping amount that is increased by 1/3.

Recommendation: Use less explosive. Comparable doors should be detonated with both variations. Evaluate explosive fragments and emissions.

The advantages and disadvantages of the both variations of charge have already been described in the description of the system.

5. Technical data:

- **Outer wrapping:** cardboard
- **PE-layer on both sides**

- Length: 1950 mm

- Weight: (gross): app. 9,6 kg

- Max. Period of readiness:

Min. 240 hours

- Detonating system: „Non-electrical“ (recommended)

- Fittings (recommended)

Funnel: **Article-No. 1027**

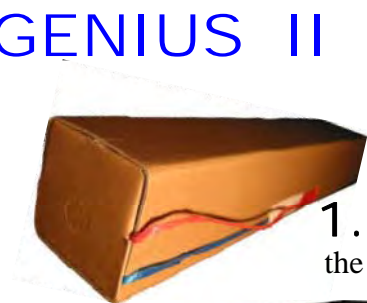
Magnetic foil: **Art.-No. 1028**

- Shelf life: min. 2 years


Further advice please compare description of the system / brief operating instructions or

www.hfh1.eu


GENIUS II Quick Operational Guide



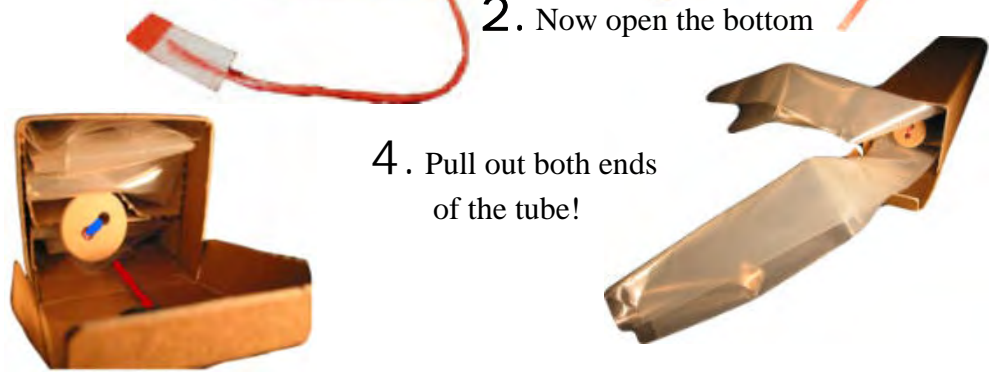
1. Carefully undo and expose the red and blue strings.



2. Now open the bottom



3. Open the top with one finger!
TIPP: Öffnen mit einem Finger
TIP: One finger opening




4. Pull out both ends of the tube!

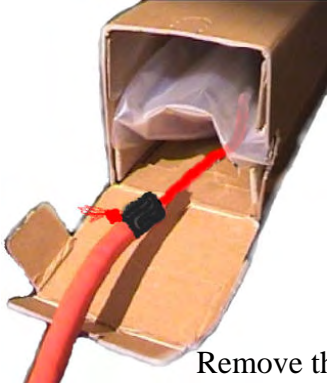
5. Choose the size of the charge. Follow **RED No. A** or **BLUE No. B**

Nr. A


Tamping 3/3

Pull out the tube carefully. Tie the **red** string to the blasting cord.






Carefully pull from the top until the blasting cord becomes visible.



Remove the string and secure the blasting cord!




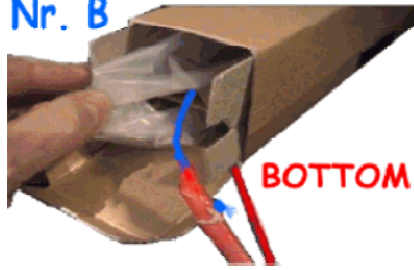
Tip: Remove the internal explosive carrier!

Nr. B

Tamping 2/3

Tie the blasting cord to the **blue** string.

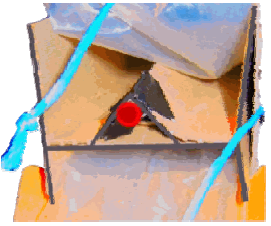




Nr. B


Pull from the top until the string becomes visible!

BOTTOM

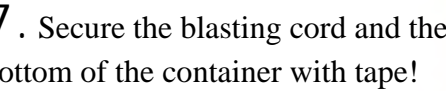


Secure the blasting cord to the top and the bottom of the container with tape.


6. Pull out the blasting cord to the side




7. Secure the blasting cord and the bottom of the container with tape!




8. Fill generously. with water.



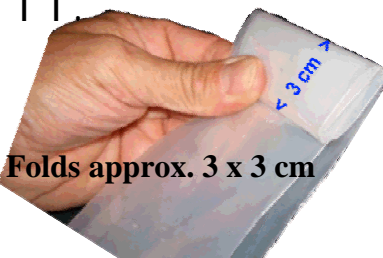
9. Lower one end of the tube and drain excess water until level reaches the container's edge.




10. Residual air should be forced out of the tube.



11. Folds approx. 3 x 3 cm



12. The multiple folded ends of the tube should now be folded accordion style as shown in diagram on the right.



13. Subsequently, tightly secure the ends in the middle with the provided quick tie. Ready to go.

