



IWEISS

FIRE STOP FIRE CURTAIN CABLE RELEASE

Venue

SEPTEMBER, 2020

IWEISS.COM

**815 Fairview Avenue #10
Fairview, NJ 07022**

Phone: (201) 402-6500
Toll Free: (888) 325-7192

Fax: (201) 402-6530
Chicago: (708) 435-4162

DISCLAIMER

This Product is offered to you conditioned upon your acceptance without modification of the terms, conditions and notices in this manual and disclaimer itself and the limited warranty. The Buyer may not modify, copy, distribute, transmit, reproduce, publish, license, create derivative work, transfer or sell any information related to this product or service. IWEISS LLC (IWEISS) reserves the right to change the terms, conditions, and notices under which their products are offered.

The information in this manual will not cover all possible situations, nor could such inclusive instructions be written by the equipment manufacturer due to the various processes of mounting theatrical equipment. This manual is intended to provide a guide to the safe and efficient operation of the furnished stage equipment and its routine maintenance. No manual can replace your duty to exercise constant vigilance and common sense. IWEISS is not responsible for any damage that results from your failure to comply with this manual.

IWEISS liability to any party injured or suffering a loss in connection with the purchase, set up, use, operation, maintenance or control of the FireStop Cable Release, (User) is contained exclusively in the limited warranty which is attached to and made part of this Operation & Maintenance Manual.

User accepts the limited Warranty of IWEISS as in effect from time to time with respect to the FireStop Cable Release, a copy of which shall be included as part of this Manual and the packaging included with the FireStop Cable Release. User acknowledges receipt of the limited warranty currently in effect. The limited warranty of IWEISS is in lieu of all other warranties, whether expressed or implied.

User shall keep a copy of IWEISS limited warranty and this Operation & Maintenance Manual intact and available for reference at any time and limit the use of the FireStop Cable Release to persons fully familiar with the warranty and the Manual. IWEISS reserves the right to change at any time and from time to time the terms and conditions of the limited warranty, and any such changes shall become effective immediately upon IWEISS forwarding such changes in writing to the User. User acknowledges and agrees that liability of IWEISS with respect to the FireStop Cable Release shall be limited solely to the aforementioned limited Warranty of IWEISS, as may be changed or modified from time to time by IWEISS. In the event User maintains, repairs, services or operates the FireStop Cable Release in a manner in any way inconsistent with the contents of this Operation & Maintenance Manual, such action shall effectively terminate any IWEISS warranty for such FireStop Cable Release.

IMPORTANT SAFETY INFORMATION

- Read this manual carefully before installing or using this product. Failure to do so can result in injury or death.
- The procedures in the manual are for use by qualified personnel only.
- Use of this product is undertaken at User's own direction and risk.
- If User has any questions or uncertainty regarding use of this product or any item contained in this manual – the machine should not be operated.
- **WARNING!** Improper installation or maintenance can cause the load to fall.
- Hoisting machines impose significant loads on the structure to which they are attached. The installer is responsible for verifying that a licensed structural engineer has determined that the structure can withstand the imposed loads.
- Equipment must be installed by personnel trained in the Industry Standards of theatrical rigging.
- Do not substitute or modify components provided with this equipment.
- Do not exceed the total capacity of the hoist, plainly marked on the Identification Label.
- The FireStop hoist System is only to be used to lift equipment, NEVER to be used for lifting people.
- The FireStop system components can be extremely heavy, plus the weight of any packaging. Use appropriate handling equipment and safe work practices. Follow all OSHA guidelines for material handling and safety practices.
- **DANGER!** Electrocutation Hazard!
- Remove power source before opening electrical panels. Use lockout / tag out systems whenever servicing equipment.
- Electrical equipment must be installed by qualified electricians as per the electrical riser supplied. Buyer must adhere to all local & national codes.
- **WARNING!** Moving parts can cut or crush.
- Keep body parts away from machinery in motion.
- Remove power source before working on machinery.
- Always check for people or obstructions before operating.



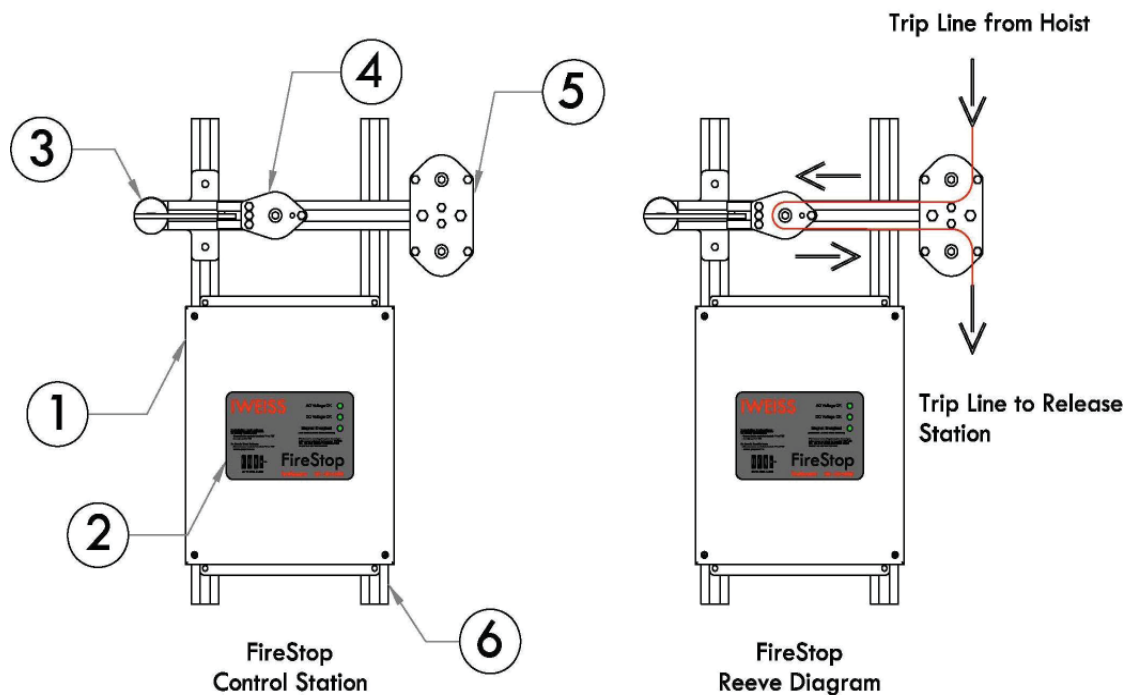
PRODUCT USE REQUIREMENTS

- Installation of this equipment must comply with local building codes.
- Equipment must be installed according to manufacturer's drawings. Individual component information is listed in the bill of materials of these drawings.
- FireStop Systems must be inspected by qualified personnel at least every year or more frequently depending on use and local, state, and federal laws. Do not install in locations that prohibit access or prevent removal of any machine covers. A "Qualified Person" is someone who has been fully trained in the use and maintenance of the machine.
- FireStop Systems are designed for use in temperatures between 50° and 90°F (10°-38°C).
- Do not expose machines to rain or extreme humidity.
- Controls must be protected from oil, dust and other contaminants.
- Installation of electrical power and control devices must be coordinated prior to the installation of the System.

INSTALLATION PROCEDURES

⚠WARNING

The FireStop should only be installed by personnel totally familiar with the product and the Industry Guidelines for safe rigging and electrical standards..



Identify the components of the FireStop

1. FireStop Station: The Control Station houses all the controls required to interface the FireStop with the fire alarm system including a backup battery for operation in case of a loss of power.
2. FireStop Electrical Diagram: Printed on the label are instruction on how the FireStop receives a signal from a fire alarm system.
3. Electro Release: This is the solenoid magnet that releases the trip sheave
4. Trip Sheave: When the magnet is release this sheave will release sliding over to the diverter sheave, which induces the proper amount of slack into the trip line system for the curtain to release.
5. Diverter Sheave: This sheave allow for the prop management of the trip line cable
6. Strut Framing: The Firestop comes pre-mounted onto the strut framing. This framing also is used for mounting

Electrical Diagram Detail:



IWEISS

AC Voltage OK ●

DC Voltage OK ●

Magnet Energized ●
(Test Button Located Inside Enclosure)

Installation Instructions:

For Normally Open Fire Sensor:
 - Connect sensor contacts to terminals "V" and "NO"
 - Insert jumper into TB5

For Normally Closed Fire Sensor:
 - Connect sensor contacts to terminals "V" and "NC"
 - Remove jumper from TB5

If the buzzer is sounding, the system is running on battery power and should be inspected. TRIP LINE WILL RELEASE WITHOUT FURTHER NOTICE WHEN THE BATTERY DRAINS!!!

FireStop

iweiss.com 201-402-6500

I/O TO FIRE ALARM

AC Voltage OK: This indicator notifies the user that the proper AC voltage is supplied to the FireStop.

DC Voltage OK: This indicator notifies the user that the DC power supply is ok or in the case of an AC power loss, that the battery is ok.

Magnet Energized: This indicator notifies the user that the release magnet is energized and the system is either in normal operation or ready to be reset.

Installation Instructions: Follow these instructions to connect the facilities fire alarm system to the FireStop.

The FireStop can operate with either normally open contacts or normally closed contacts. Normally closed contacts are preferred since they will trip the system if the leads are cut. Switching the FireStop between normally closed and normally open operation requires installing or removing a jumper on the inside of the enclosure.

INSTALLATION STEPS

1. Unload the packaged equipment.

FireStop systems are shipped on pallets. While packaged you must:

- Protect pallets from rain and humidity.
- Use safe material handling practices.
- Store packaged machinery in clean and dry locations that are protected from impact or other abuse.

2. Anchoring the FireStop.

- Use required toolage to remove all lags, bolts, etc. to free controller from pallet.
- Always use proper lifting techniques when moving a machine into place.
- Set controller into proper place, where alignment is required with the device(s) you intend to move.
- Once location is confirmed, anchor into location.

If you are not sure how to attach the system to structure please contact the manufacturer or a local structural engineer.

- It is important to ensure that the mounting of the unit is level and plumb.

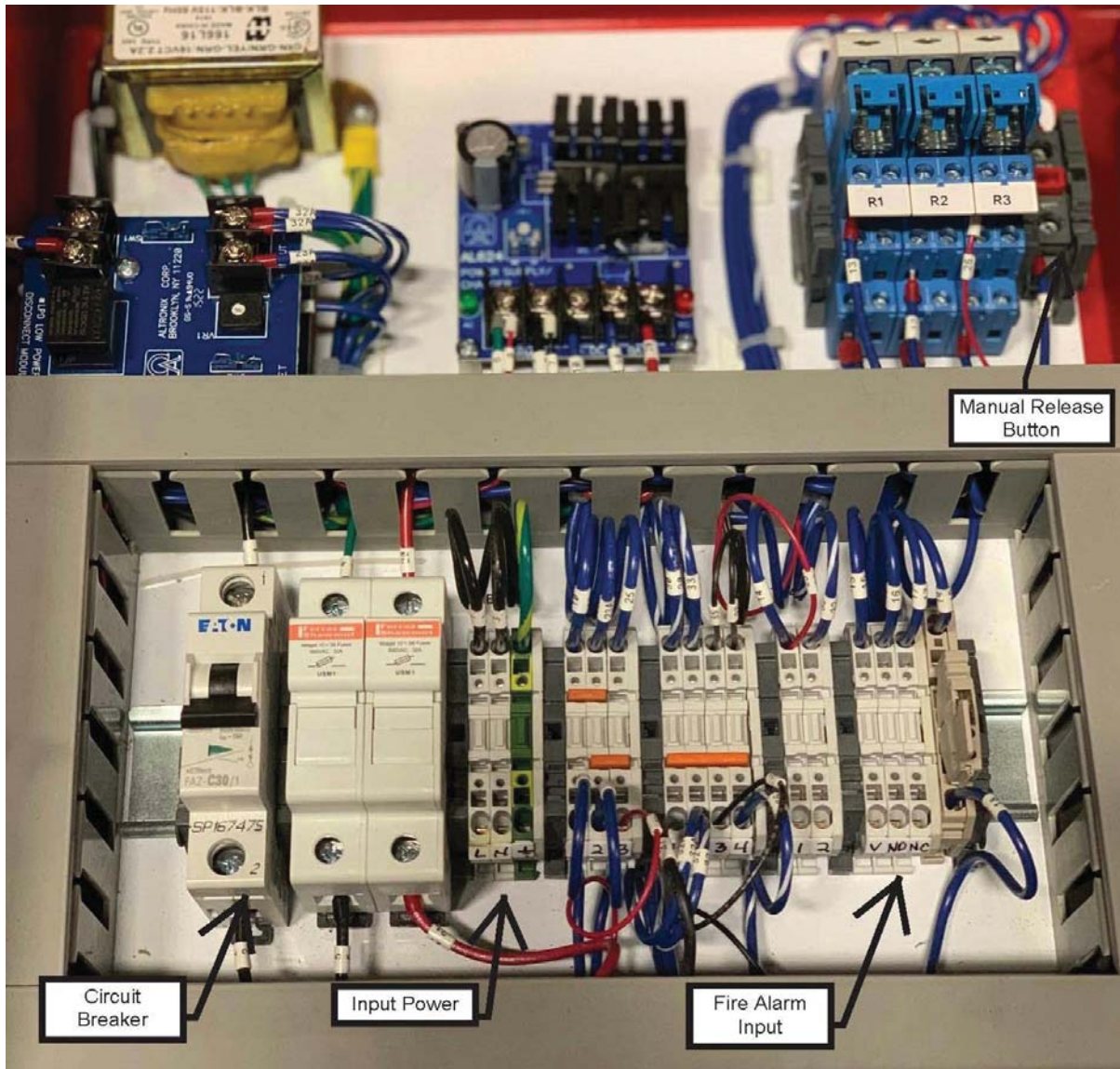
3. Confirm power to FireStop.

To get power to the FireStop:

ELECTRICAL INSTALLATION MUST BE PERFORMED BY A QUALIFIED INDIVIDUAL. DO NOT ATTEMPT TO OPERATE THE EQUIPMENT UNTIL QUALIFIED TECHNICIANS OR ELECTRICIANS HAVE CONFIRMED PROPER WIRING HAS BEEN INSTALLED.

- First, ensure that the main circuit breaker for the circuit you are working on is switched off and tagged out.
- Remove the face plate of the control station.
- Each connection in the controller housing is labeled displaying where the L, N and Ground wires are to be terminated.
- Once the power has been run and the knockout in the rear of the cabinet has been secured or closed, re-install the face plate on the MCC and the circuit breaker can be turned back on.

FireStop Cabinet Interior Callouts:



Fire Alarm connections

The fire alarm system can provide either normally open or normally closed contacts to the FireStop depending on the design of the fire alarm. IWEISS prefers a normally closed contact because it is considered to be failsafe and will trip the system if there is a break in the control circuit.

Normally Closed Operation:

On the inside of the FireStop enclosure, there are three terminals in the bottom right corner with a jumper terminal to their right. To wire for normally closed operation (meaning the alarm system has a closed contact when there is no fire detected and an open contact when the system is tripped) simply connect the terminal labeled "V" to the input of the fire alarm and the terminal labeled "NC" to the output of the fire alarm. The "V" terminal will supply 12 volts to the fire alarm terminal and the "NC" terminal will monitor the fire alarm's output of that 12 volts.

For normally closed operation, the jumper from TB5 must be removed.

Normally Open Operation:

On the inside of the FireStop enclosure, there are three terminals in the bottom right corner with a jumper terminal to their right. To wire for normally Open operation (meaning the alarm system has an open contact when there is no fire detected and a closed contact when the system is tripped) simply connect the terminal labeled "V" to the input of the fire alarm and the terminal labeled "NO" to the output of the fire alarm. The "V" terminal will supply 12 volts to the fire alarm terminal and the "NO" terminal will monitor the fire alarm's output of that 12 volts.

For normally open operation, the jumper from TB5 must be inserted. Press the jumper into the jumper's terminal block on the right of "NC" until you feel a solid click. Give a slight pull on the jumper to make sure it is properly seated.

HOW TO OPERATE THE FIRESTOP HOIST

The Firestop is only to be operated by qualified personnel fully familiar with all of the contents of this manual.

Setting and resetting the trip line:

- Confirm that the line is clear of all obstructions.
- Verify that the trip line is rigged as shown above in “installation procedures”
- Power on the control cabinet and verify all three indicators are lit.
- At this point, the magnet should be energized and the trip hook will most likely be held by the magnet. To release the hook, open the enclosure and press the small square green test button which will release the magnet.
- Slide the release sheave back and capture it with the release hook. With the magnet energized, press the release hook into the magnet and the magnet will now hold the sheave in place. If the rest of the system is installed properly, there should now be tension on the trip line.

Testing the FireStop:

WARNING: TRIPPING THE FIRESTOP MAY CAUSE A RELEASE OF THE FIRECURTAIN AND CAUTION SHOULD BE EXERCISED TO ENSURE ALL POTENTIALLY MOVING PIECES ARE SAFE TO OPERATE BEFORE TESTING

Once properly set, there are two ways that the FireStop should be tested, first by depressing the green release button on the inside of the enclosure as discussed above. This will release the magnet and locally test the controls inside the FireStop.

The second method that requires testing is tripping the FireStop through the fire alarm system. This may require assistance from a third party to operate the fire alarm. Once the alarm is tripped, the FireStop should operate just as if the test button was depressed.

Power Failure and Battery Backup:

The FireStop is equipped with a battery backup in case of a power failure. If the power goes out in the facility, the battery will keep the Trip line tight until either the fire alarm has tripped the system or until the time the battery has lost sufficient power that its controls will no longer operate. In either case, the FireStop will open the trip line. The battery has a Fuse inline for protection and must be closed and intact at all times in order for proper operation.

CHECKS & MAINTENANCE PROCEDURES

Inspections

a) Annual Maintenance Inspection – The FireStop requires an ANNUAL MAINTENANCE INSPECTION to insure safety and trouble-free operation. Inspect on a scheduled basis and keep records [See Maintenance Log]. These records will provide information on length of service and any changes which might indicate worn parts. Industry Standards require that a safety inspection be performed by a professional stage rigging company, employing ETCP certified riggers, at least once a year.

Copy of completed Annual Maintenance Logs should be sent to IWEISS via fax or email at info@iweiss.com in a timely fashion in order to maintain Warranty. In the event that the Maintenance Logs are not received, the Warranty will be void.

b) Routine Visual Inspection – The User should always be aware of the equipment and its various components. When the equipment is in operation, any change in sound or look should be noted. The frequency of the Routine Visual Inspection depends on the usage and severity of the operating conditions. At a minimum the owner should look for problems (nicked/kinked cables, loose fittings, obstructions, oil drips, etc.) and conduct a full visual inspection at least once a month.

Maintenance of the FireStop should only be performed by a FireStop approved firm with ETCP Certified Riggers.

Maintenance

Power supply must be locked out before and during any checks or maintenance is performed.

- Components in the power disconnect box should be checked. Turn the power off at the circuit breaker panels and install a tag out notice for that system. Excessive dirt should be vacuumed from the cabinet interior to prevent contact arcing and premature relay failure.
 - Inspection for signs of metal shavings, metal dust, leaking oil, etc.
 - Check and tighten, if needed, Sheave mounting, all mounting bolts, cap screws.
 - Check and tighten, if needed, frame mounting to structure.
 - Inspect the trip cable, attachment to release stations/hoist, how cable wraps around sheaves, etc.
 - Clean the magnet of any debris.
 - Inspect the tension of the trip line.
 - Inspect the connection of wires to terminals as well as the tightness of the screws on the wire terminals.
 - Keep safety guards, if applicable, in place except when access is required for service.
 - Confirm that the electrical feed to the cabinet is tight, and conduit strain relief is tight.
- Inspect all cable terminations in the system.

TROUBLESHOOTING

The first step in trouble shooting any circuit is to obtain a clear understanding of the circuit and its function. If you are unaware of how a power or control circuit works then you should refer to a qualified technician to troubleshoot this portion.

Next, gain an understanding of the problem. Troubleshooting is very difficult if you do not know what you are looking for. Obtain information from the operator who uses the equipment. Often he can help to describe and isolate the problems more quickly.

NOTE: MOST TROUBLESHOOTING CALLS ARE THE RESULT OF AN E-STOP BUTTON BEING PRESSED. PLEASE PRESS AND RELEASE ALL E-STOP BUTTONS BEFORE CALLING FOR SERVICE IF A MACHINE IS NOT MOVING.

Eliminate the obvious, no matter how simple:

- Is the winch turned on?
- Are the disconnects turned on?
- Are all E-Stop released
- Check the fuses, circuit breakers and overload relays.
- Are limit switches tripped or blocked?
- Look for overheating or warm areas, signs of leakage, smells and recently made changes.
- THEN use the following procedures to isolate the problem to the control circuits, power circuit, load, or incoming power.

Troubleshooting the incoming power supply, fuses and circuit breakers:

1. One of the most common problems found in all electrical circuits is a blown fuse or a tripped circuit breaker. This is because the fuse or breaker is sized to open or trip in case of trouble. The device that has opened or tripped has done so because of some fault on the line. This fault may be located in any load connected to the line, a combination of loads, the wiring, or even the fuse or breaker itself. In any case, the fuse must be replaced or the breaker reset.
2. Although circuit breakers usually have an indicator to tell when they are tripped. Check the incoming power supply for incoming power. It is a common mistake to assume that power is present on incoming lines. Remember that these lines are also protected by other fuses and breakers that may have tripped or failed for any reason.
3. Use a voltmeter to check the voltage between each pair of power leads. The supply voltage should be within 10% of the voltage rating on the motor nameplate and other connected devices. If the voltage is present, but out of specification, further research is needed. If the voltage is correct, check the enclosure for proper ground. To test for ground, connect one side of the voltmeter to an unpainted metal part of the enclosure and touch the other side of each of the line terminals. A voltage difference should be indicated on the voltmeter.

TROUBLESHOOTING

4. Next test the fuses or breaker for an open circuit. Apply power to the fuses or breaker. To prevent any possible feedback through the connected loads, it may be necessary to disconnect the load side of the fuses or breaker. Connect the meter from the line side of one fuse to the load side of another (never the same one). A full voltage reading (phase to phase, not phase to ground) indicates a good fuse.

Troubleshooting a control circuit:

1. Eliminate the incoming power as the source of trouble by connecting a voltmeter or test light across the terminals and verifying that the proper voltage is present.
2. Once the control circuit has been determined to be the source of the problem, continue by jumping each control device until the problem is found.

Troubleshooting limit switches:

1. Rotary limit switches should have:
 - a. Locking screws tight on switch cams.
 - b. Switches making contact with cams.
 - c. Wires tight in terminals.

LIMITED WARRANTY

The limited warranty stated below is given in place of all other warranties, express or implied, of merchantability, fitness for a particular purpose, or otherwise, no promise or affirmation of fact made by any agent or representative of seller shall constitute a warranty by seller or give rise to any liability or obligation.

Seller warrants that on the date of delivery to carrier the equipment is free from defects in workmanship and materials.

Seller's sole obligation in the event of breach of warranty or contract or for negligence or otherwise with respect to equipment sold shall be exclusively limited to repair or replacement, F.O.B. Seller's point of shipment, of any parts which Seller determines to have been defective or if Seller determines that such repair or replacement is not feasible, to a refund of the purchase price upon return of the equipment to Seller.

Any action against Seller including but not limited to breach of warranty, breach of contract, product defect, negligence or otherwise, must be commenced within one year after such cause of action accrues.

Seller shall not be liable for any damage, injury or loss arising out of the use of the equipment if, prior to such damage, injury or loss, such equipment is (1) damaged or misused following the Seller's delivery to carrier; (2) not maintained, inspected, or used in compliance with applicable law and Seller's Operation & Maintenance Manual; or (3) installed, repaired, altered or modified without compliance with such law, or manual.

INDEMNIFICATION AND SAFE OPERATION

Buyer shall comply and require its employees to comply with directions set forth in instructions and manuals furnished by Seller and shall use and require its employees to follow such instructions and manuals and to use reasonable care in the use and maintenance of the equipment. Buyer shall not remove or permit anyone to remove any warning or instruction signs on the equipment. In the event of personal injury or damage to property or business arising from the use of the equipment, Buyer shall within 48 hours thereafter give Seller written notice of such injury or damage and shall cooperate in the handling of any claims arising therefrom.

If Buyer fails to comply with this section or if any injury or damage is caused, in whole or in part, by Buyer's failure to comply with applicable federal or state safety requirements and/or Buyer's failure to follow Seller's Operation & Maintenance Manual, Buyer shall indemnify and hold Seller harmless against any claims, loss or expense for injury or damage arising from the use of the equipment. Buyer shall indemnify, defend, and hold Seller harmless.

HOW TO CONTACT IWEISS

Please contact the Installation Department at:

IWEISS LLC
815 Fairview Avenue
Unit 10
Fairview, NJ 07022
Phone (201)402-6500
Fax (201)402-6530

MAINTENANCE LOG

PRODUCT USE REQUIREMENTS

This Maintenance Log is provided as a tool for use by a qualified person while inspecting the FireStop. Although an attempt has been made to include all of the most important points of maintenance, no such list can anticipate the particular circumstances of every installation. It is the responsibility of the qualified person to make a reasonable effort to identify hazardous conditions not mentioned herein and formally advise the owner to take corrective action.

IMPORTANT SAFETY INFORMATION

See Identification Label on the unit for serial number, manufacture date and contact number.



WARNING! Improper installation or maintenance can cause the load to fall.

- Do not substitute or modify components provided with this unit. Use only parts provided by IWEISS.
- Do not exceed the total capacity of the hoist. It is plainly marked on the Identification Label.



DANGER! Electrocution Hazard!

- Remove power source before opening electrical and inspection panels. Use lockout / tag out systems where necessary.
- Electrical equipment must be serviced by qualified personnel only.



WARNING! Moving parts can cut or crush.

- Keep body parts away from machinery in motion.
- Remove power source before working on machinery.

INSTRUCTIONS FOR USE

1. Prior to maintenance, obtain and review a copy of the Via product Operation and Maintenance Manual for the hoist being maintained.
2. Inspect each of the items on the Log and verify that the machinery is serviced and adjusted according to the requirements of the maintenance manual. Remove the covers from the machine as required.
3. Replace the covers and repeat the process for each machine on site.
4. Make sure that the Identification Label is still adhered on each unit. Contact IWEISS for a new label if necessary.
5. Make contact with the authorized person at the venue and make sure that the manual and maintenance log are available for use.
6. File copies of the Maintenance Log with the Owner along with any recommendations for service. Complete the Certificate of Maintenance and fax or mail a copy to IWEISS.

MAINTENANCE LOG

Serial #:

Inspection Date:

The following chart lists items to be checked and noted on an annual basis. Confirm that each line has been completed, any notes from the inspection and initial. Repeat for each individual hoist in the system. When complete, FAX to (201)402-6530 OR Email info@iweiss.com Attn: Maintenance Dept.

Components in the power disconnect box should be checked. Turn the power off at the circuit panels and install a tag out notice for that hoist. Excessive dirt should be vacuumed from the cabinet interior to prevent contact arcing and premature relay failure.

Inspection and look for signs of metal shavings, metal dust, leaking oil, etc.

Check and tighten, if needed, motor mounting, and all mounting bolts and cap screws.

Inspect the wire rope for opening or fatigue around the wraps of the drum.

Clean motor fans to keep them from overheating.

Inspect the connection of the limit device.

Inspect the connection of wires to terminals as well as the tightness of the screws on the limits switch.

Keep safety guards in place except when access is required for service.

Confirm that the cable connections to moving devices are properly installed

Inspect the mounting connections to the building structure.

Run the hoist and listen for awkward noise and feel for any excessive heat

NOTES:

Is this a New Installation or Yearly Maintenance?

I have inspected this hoist and control system I have verified that the machinery is configured and maintained according to the Maintenance Manual.

Print Name

Signature

Company Name

Contact Number