



# CADWELD® Connections to Load-Bearing Rail


## IPRLBR\_B

### I. HOW TO READ THESE INSTRUCTIONS / WHAT THE SYMBOLS MEAN

The purpose of safety symbols is to attract your attention to possible dangers. The safety symbols, and the explanations with them, deserve your careful attention and understanding. The safety warnings do not by themselves eliminate any danger. The instructions and warnings are not substitutes for proper accident prevention measures.

 **SAFETY ALERT SYMBOL:** Indicates warning or caution. It may be used in conjunction with other symbols or pictographs.

 **WARNING:** Failure to obey a safety warning may result in property damage, serious personal injury or death, and the serious personal injury or death of others. Always follow the safety precautions to reduce these risks.


 **CAUTION:** Failure to obey a safety caution may result in property damage, personal injury, and injury to others. Always follow the safety precautions to reduce the risk of fire, other property damage and personal injury.


**NOTE:** Advises you of information or instructions vital to the operation or maintenance of the equipment.


In the following instructions, cautions and warnings, there are two types of consequences for failure to heed:


- A. **IMMEDIATE**, that may result in personal injury or a failed operation that may result in a less than optimum bond and that will not give the physical and electrical performance expected.
- B. **EVENTUAL**, that may result in a later premature rail break, causing a serious derailment accident with personal injuries or death, and loss of property.


### II. GENERAL RULES FOR SAFETY IN THE APPLICATION OF EXOTHERMIC CONNECTIONS TO THE RAIL

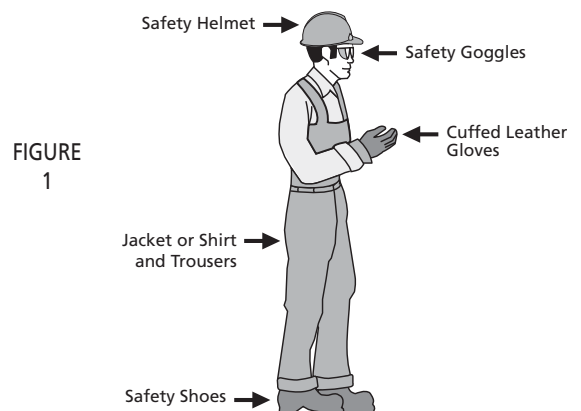
 **WARNING:** Do not attempt to make an exothermic connection until you have thoroughly read and understand the instructions that accompany all of the various components of the system and have been properly trained in the use of this product. Use only the system components designed to be used together from a single manufacturer. Failure to comply may result in unsatisfactory bonding as well as accidents involving fire, personal injury, and rail damage that may lead to property damage, injury or death.


 **WARNING:** Only the correct grinding equipment, welding equipment, welding material, and properly sized conductor designed for the specific application must be used. All items used must be designed and supplied by the same manufacturer. All items must be in good condition and not worn, altered or damaged. Failure to do so may result in an unsafe application with the risk of personal injury and/or a less than optimum connection.

 **WARNING:** The area where the connection is to be applied must be sheltered sufficiently if the weather is inclement. This is to keep the rail surface, all equipment, and materials dry until the weld is completed. Failure to do so may result in an unsafe application with the risk of personal injury and a less than optimum connection.

 **CAUTION:** The work area must be well ventilated Workers should avoid breathing the smoke of the exothermic reaction by positioning themselves upwind of the mold before igniting the welding material. After ignition, it is advisable to step back from the mold. Failure to observe this instruction may result in lung irritation.

 **WARNING:** The worker(s) performing the welding must be properly dressed and equipped. Examples include cotton or woolen garments (most synthetic fabrics melt rather than char when exposed to flame, causing severe burns), safety footwear with non-slip soles, head protection, leather gloves, eye goggles and other clothing and equipment recommended or required by the person's employer, industry practice, or applicable laws and regulations. The worker(s) must not be under the influence of any alcohol, drugs or other chemicals that would impair their judgment or performance of the job. Failure to observe this may result in serious personal injury. **See Figure 1.**



 **CAUTION:** The worker(s) must be certain that they can achieve good footing in the area where the weld will be done. They should be able to step away from the weld reaction, to be upwind of it. Failure to observe this may result in personal injury.