



# What are the requirements for energy storage welding on plates

What are the requirements for welded steel?

The requirements of this section provide for welding of structural steels that have a minimum specified yield point not greater than 70 ksi. The steels to be welded are listed in Section 5, Base Metals. Higher strength steel or steels not listed in Section 5 will be subject to additional requirements as listed in the Contract Documents.

What are the welding requirements for steel backing?

The steel backing shall be made continuous for the full length of the weld. All necessary joints in the steel backing shall be complete joint penetration groove welds meeting all the workmanship requirements of Section 7. Weld backing shall conform to the requirements of Section 504. The minimum thickness of the backing shall be 3/8 inch.

What are the requirements for welding?

708.1 General Requirements. All welding processes with the exception of electroslag and electrogas welding shall require that the steel be preheated and that interpass temperatures be maintained in accordance with Table 708.

Can a steel plate be welded to a structural material?

When plate thickness is not sufficient for such preparation, repair welding will not be permitted. 0.40 max. When reinforcing steel is to be welded to main structural material, the preheat requirements of the structural material shall also be considered (see Table 708).

How long should a weld plate be?

The minimum length of added plate shall be 5 feet [1.5 m] unless otherwise approved by the DCES. A longer plate may be required to insure an area free of laminations at the boundary of the additional tension groove weld.

What are the requirements for a test weld?

When required by the DCES, the test weld(s) shall be cut perpendicular to the direction of welding and the cut surfaces shall be polished and etched to clearly define the weld metal and heat affected zones. A clear protective coating shall be applied to prevent corrosion. The specimens shall be submitted to the DCES for examination.



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