



SHORING SECTION

SSFI RECOMMENDED PROCEDURE

Recommended Procedures for Inspecting Used Welded Tubular Frame Shoring Equipment

Visual inspection of Used Vertical Shoring Equipment is intended for all current manufactured shoring products of steel and aluminum and not intended for other materials such as wood products.

Visual Inspection

Inspection teams must be thoroughly trained to recognize the following possible defects or unsafe conditions present in used shoring regardless of age and source:

1. Cracked or broken welds
2. Missing members, legs or crossmembers
3. Split structural tube
4. Voids in legs or crossmembers due to cutting or cutting torch activity
5. Evidence of extreme heat applied to the product
6. Extra drill holes
7. Missing or inoperable cross brace lock devices
8. Tubular members out of round or deviations from normal cross section
9. Bent crossmembers or legs, including dents and dimples
10. Squareness or warp of frames, ledger frames and major components
11. Extreme corrosion
(Corrosion can affect the overall strength of the product due to loss of cross sectional area)

Various jigs and fixtures can be assembled to inspect and check the out of round tube.

Accurate measurement of wall thickness can be accomplished in place on suspect product with extreme corrosion present, usually at the top or bottom of the frame using ultrasonic test equipment. This equipment does not measure air voids, thus measuring only the solid material, either aluminum or steel.

This Recommended Procedure was prepared by members of the SSFI Shoring Section.

SSFI is a trade association comprising manufacturers of shoring, scaffolding, forming, and suspended scaffolding. The institute focuses on engineering and safety aspects of scope products.

This procedure does not purport to be all-inclusive nor to supplant or replace other additional safety and precautionary measures to cover usual or unusual conditions. If this procedure conflicts in any way with a state, local, federal or other government statute or regulation, said statute or regulation shall supersede this procedure and it shall be the responsibility of each user to comply therewith. This procedure has been developed as an aid to users of shoring equipment. SSFI is not responsible for the use of this procedure.