

Natural Resources Conservation Service  
Conservation Practice Standard

**LIVESTOCK SHADE STRUCTURE**  
**(Ac.)**  
**CODE 717**

**Livestock Shade Structure.** This specification covers the materials and installation of livestock shade structures.

Structural materials. Structural members shall meet the requirements of conservation practice standard Livestock Shade Structure, Code 717.

Fabric. Fabric shall meet the requirements in conservation practice standard Livestock Shade Structure, Code 717. Fabric shall be constructed of high quality materials and shall be recommended by the manufacturer to be suitable for this use. The mesh fabric shall provide at least 80 percent shade.

The shade cloth shall be adequately secured to the shade cloth frame with ultraviolet light (UV) protected polypropylene rope or other equivalent methods so as to provide adequate and even tension on the fabric in accordance with the manufacturer's recommendations.

**Shop Fabrication.** Shop fabrication of structural elements may be performed for easy field assembly in lieu of welding. All such fabrication shall permit assembly of the structure to have strength equal to that of a continuously welded structure. All such fabricated-members shall be joined by no less than two ½-inch machine bolts with connecting members being no less than double pipe thickness or 3/8-inch steel plate. The designer shall approve plans for such fabrication.

**Variations.** Planned variations from the above materials and installation specifications must be approved before construction by the responsible designer, provided it is determined that such variations will result in an installation that will meet or exceed one installed in accordance with the above specifications. These variations will be documented and recorded on the design.

**Construction Tolerance.** Structural dimensions and materials used shall be documented in writing. Minor construction tolerances may be accepted by the person responsible approving the construction.