

**SECTION 24 - SIDE FORMS AND HEADERS**  
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## **SECTION 24 - SIDE FORMS AND HEADERS**

### **24-1 GENERAL**

Side forms and headers for portland cement concrete pavement or asphalt concrete pavement must be furnished and placed on an approved subgrade prepared per Section 18, "Earthwork", of these Specifications. All requirements specified in this Section also apply to headers. All forms must be mortar tight.

Side forms must be straight, free from warps, bends, indentations, or other defects. The top edge of each section of form must not vary more than one quarter inch (1/4") from a true, straight line in the length of the form, and must be placed to the required grade and alignment of the edge of the finished pavement. Side forms must not deflect during placing, tamping and finishing of the pavement. Side forms must not deviate laterally more than one-quarter inch (1/4") or vertically more than one-eighth inch (1/8") from proper line and grade. Defective forms must be removed from the Work.

All forms must be thoroughly cleaned and oiled before each use.

### **24-2 FORM JOINTS**

Form joints must provide perfect support. If in the opinion of the Agency the joints do not furnish perfect support, the Contractor will be required to either substitute acceptable forms or, with the approval of the Agency, wedge the forms with wood and provide double supporting stakes underneath the form ends. There must be a 1/4 inch expansion gap between the ends of the frame.

### **24-3 TIMBER SIDE FORMS**

Timber side forms must be Construction Grade Douglas Fir, in accordance with Standard Grading Rules of the Western Wood Products Association, and must be at least 2 inches, surfaced on 1 edge and on the side that is placed next to the pavement. The depth of timber forms must equal the specified depth of the edge of the pavement, but cannot be less than 4 inches, except where placed on existing pavements. Timbers with rounded edges, ends, corners, or split ends cannot be used.

Timber side forms must be secured by nailing to side stakes spaced not more than 4 apart and driven vertically so that their tops are 1 inch below the top edge of the side form. Stake dimensions must not be less than 3 inches wide, 1-1/2 inches thick, and 18 inches long. Stake length must be increased if the character of the soil does not permit sufficient bearing to an 18-inch stake.

Side form joints must be spliced with a section of timber 4 feet long, 1 inch thick and 6 inches wide. The splice section must be nailed lengthwise, lapping the joints.

Timber side forms must be supported on 2 by 3 inch stakes, spaced not more than 4 feet apart and driven with their tops to the line and grade for the bottom of the side form. These stakes must be of adequate length to rigidly support the forms but must be at least 8 inches long.

### **24-4 METAL SIDE FORMS**

Metal side forms must have sufficient rigidity to prevent springing during the placing, tamping and finishing of the pavement. The depth of the metal side forms must equal the specified depth of the edge of the pavement. Forms must be of the full depth required, in one piece. Splicing of forms by the addition of a wooden base is not permitted.

Metal side forms must be supported at each end on a 2 by 3 inch stake. Stakes must be of adequate length to rigidly support the form but must be at least 8 inches long. The stakes must be driven with their tops to the line and grade for the bottom of the side form.

Metal forms must be staked firmly by means of steel stakes, placed not more than 5 feet apart, and must be designed so stakes may be driven through the base of the form and locked in position.

#### **24-5 FORM MAINTENANCE**

Side forms must be furnished, installed, and maintained to the required line and grade at least 1 day ahead of the placing of portland cement concrete or asphaltic concrete. When side forms do not conform to the correct line and grade, or have become loose, work will be stopped until the side forms are corrected by the Contractor, to the satisfaction of the Agency.

#### **24-6 PAYMENT**

Full compensation for furnishing and placing side forms and headers is included in the prices paid for the various items of work involving the use of side forms and headers and no separate payment will be made.