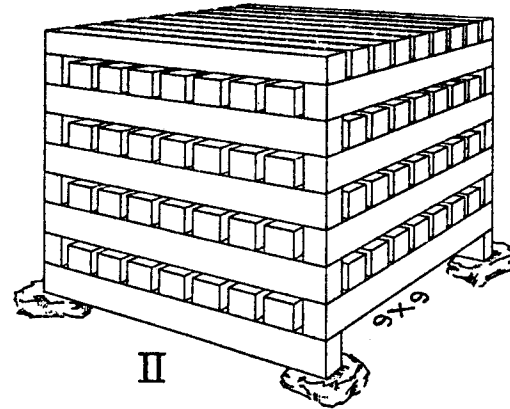
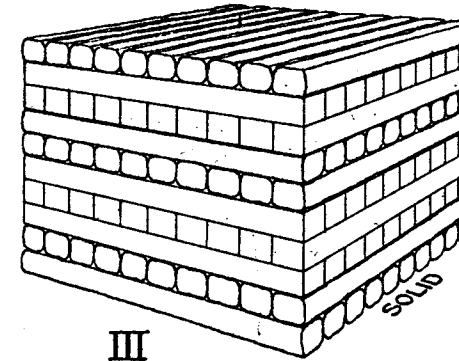


ROUND AND RECTANGULAR TIES

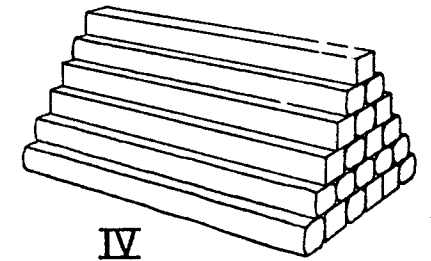
Other sills not necessary if lowest two ties are treated



RECTANGULAR TIES ONLY



ROUND AND RECTANGULAR TIES

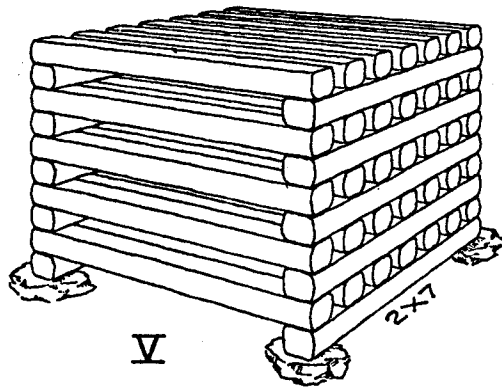


ROUND AND RECTANGULAR TIES

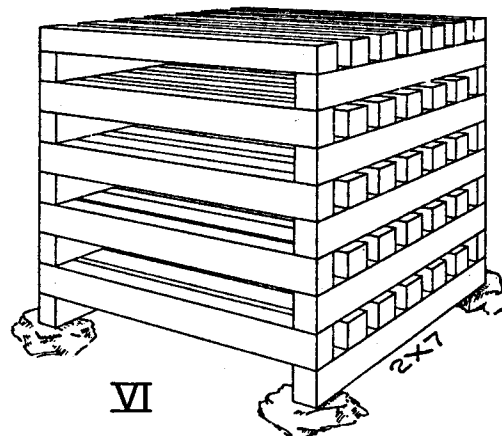
UNTREATED OR SALT-TREATED TIES

OIL-TREATED TIES ONLY

## STORAGE STACKS



ROUND TIES



RECTANGULAR TIES

## INSPECTION STACKS

All ties shall be stacked in accordance with the method or methods shown on this plan for ties of corresponding form and treatment, under the following rules:-

1. All stacks shall be on well-drained ground bare of vegetation or debris for at least 2 feet around each stack.
2. Decayed ties shall not be used as sills.
3. The height of stacks shall be governed by the space available for stacking purposes; but 20 layers shall not be exceeded.
4. Ties shall be stacked in solid rows; except when the length of any row exceeds 10 stacks, a clear space 10 feet wide must be maintained between each 10 stacks.
5. Untreated and salt-treated ties shall have 3 feet between any rows of stacks.
6. Where an area adjacent to or surrounded by bush, forest, or grass land must be used for the storage of 5 or more stacks, a fire line of bared or plowed ground 3 feet wide about the whole yard should be maintained.
7. As far as possible, ties shall not be stacked within 100 feet of any structure.
8. Dirt may be spread on top of stacked ties only when oil-treated ties are stacked solid within reach of locomotive sparks.
9. All stacked round ties ought to have an S-Iron inserted in each end.
10. Salt-treated ties shall be seasoned at least 90 days after treatment.

PENNSYLVANIA SYSTEM



STANDARD

## METHODS OF STACKING CROSS-TIES

OFFICE OF CHIEF ENGINEER, PHILA., PA., JUNE, 1921

Correct

*John Foley*  
Forester

Correct

*W. B. Leach*  
Engineer of Standards

Approved

*[Signature]*  
Chief Engineer

70910-A