NAIL-GLUING OF ROOF TRUSSES AND FRAMES

1. NAIL-GLUE FOR STRENGTH AND ECONOMY

Nail-gluing makes possible inexpensive roof trusses and frames which are much stiffer and stronger than those fastened by other means. A glued joint holds two members together without any possibility of slipping. Nail-glued trusses and frames do not require skilled labor to build since only simple cans are involved and precise fitting of members is not necessary.

2. MIX GLUE

To build one nail-glued roof truss or roof frame, you will need:

- Approximately 1 pound of powdered, Grade "A" contains glue per truss or frame.
- The glue must be mixed according to the manufacturer's instructions. Thin or watery mixtures must be avoided.

Correct Glue Consistency

3. LAY OUT TRUSS OR FRAME

Lay out on a flat, smooth surface (subfloor or slab—not the ground) the truss or frame to be built. Trusses and frames being constructed should be protected against rain and temperatures below 50° F.

4. APPLY GLUE

- Apply glue directly to the 2" x 4" members by means of a mechanical glue spreader.
- A serrated bar or paint brush can be used but the application of the glue is slower and messier.

Correct Application

5. USE PLENTY OF GLUE

A correct spread of glue on the wood will look like that shown below. A correct spread of glue on the wood will look like that shown below. A correct spread of glue on the wood will look like that shown below.

Correct Glue Consistency

6. PUT PLATES IN POSITION

After the glue has been applied to the 2" x 4" members, place the plates in position on the truss or frame, and nail.

7. NAIL PLYWOOD

Nail plywood, preferably by means of a mechanical nailing machine. Nailing can also be done manually. If so, drive nails hard so that their heads are buried in the plywood. Solid-wood splice plates must be nailed manually with common wire nails.

Mechanical Nailing

8. NAIL ACCORDING TO PATTERN

To nail, use the types of nails sketched:

- For plywood gussets
- For solid splice plates
- 6-d Nails

9. JUDGE GLUE JOINT BY SQUEEZE-OUT

When two members are nailed together, some of the glue will be squeezed out if the correct amount of glue has been used. This is visual verification of a good glue joint.

10. STORE TRUSSES FOR 24 HOURS

After they are nailed, trusses and roof frames should be stacked in a protected place. They should not be handled again for 24 hours after stacking.