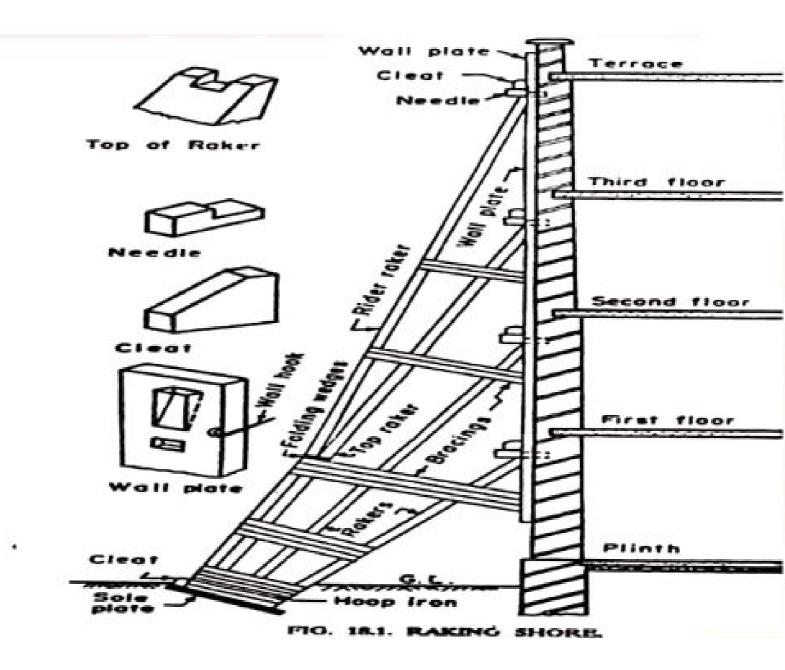
shoning: * shoring is the construction of a temporary structure to support temporarily on useful Atructure. These support walls laterally. * They can be used under the following crownifances 1) when walle buge out due due to bed workmanship, when wall crack due to uniqual settlement of foundation, and repaire are to be corrected out to the cracked wall. 3. When an adjacent structure needs pulling down 4. When openings are to be newly made on enloringed in a wall. types of shoring (1) Raking shoots @ flying shores (Inclined shores) 3 Dead Shores. O Raking shores :- In this method, inclined members known as fakers are used to give leteral supports to walls. A raking shore consists of the following components: i) Rakers or Inclined member il) Wall plate (iii) Needies (iv) cceats W) Bracing (VI) of soleplate.

- The following points are to be kept in view for the use of the Raking shoring:
- 1. Rakens are to be enclined in the ground out 45°. However the angle may be between 45° and 75°.
- Defor toill building, the length of the raker can be reduced by introducing video raker.
- 3. Pakers should be properly bronzed at intervals,
- 4. The size of the racers is to be devided on the basis of anticipated from the wall.
- 5. The center line of a racker and the wall should meet out floor level.
- to longer length of the bars.
- The sole plate should be properly embedded ento the ground on an inclination and should be of proper section and size.
- 1 wedges note not be used on sole plates sinces they are likely to give may under 10 vibrations that are likely to occur.

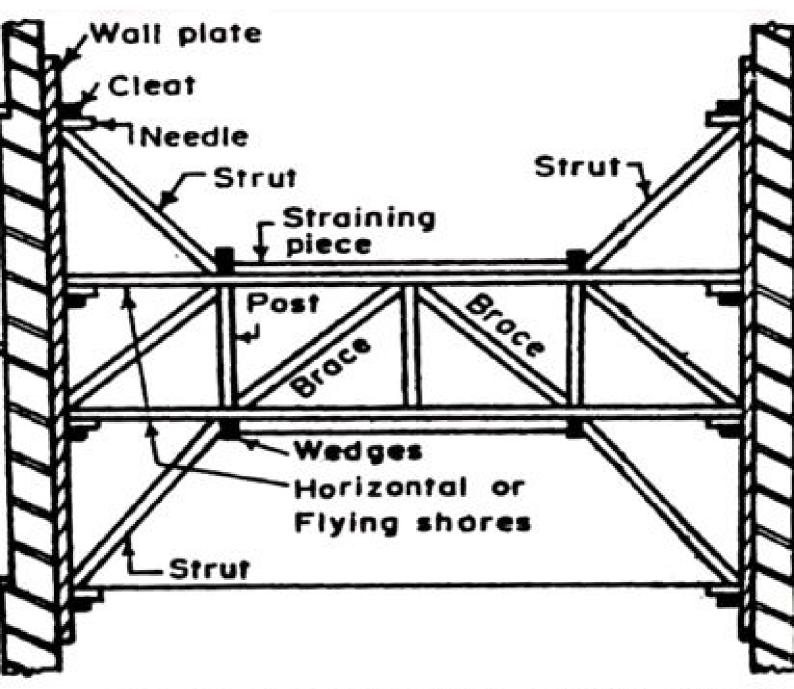
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- > It is a system of providing temporary support to the party walls of the two buildings were where the intermediates of supporting building is to be pulled down and rebuilt.
- All types of arrangements of supporting to the useful stoucture in which the shores do not reach the ground come under this copy contegory.
- 2) They if lying shore consists of wall plate, needles, was clearly honzontal struts and inclined struts arranged in different forms which vonies with the saturation.
- 2) In this system also the wall plates are placed against the wall and secured to it.
- 2) A. horizontal strut is placed between the wall plates and supported by a system of needleand cleats.
- The inclined strute are supported by the needle sot their top and by straining pieces at their feet
-) It the walks are quit near to each other (Distance up to 9 m) called as single flying stroope.
- 2) when the distance between the wells is more than 9m a compound on double flying shore will be provided.

- The following points are to be kept in view for the use of the Raking shoring:-
- 1. Rakers are to be enclined in the ground out 45. However the engle may be between 450 and 750.
- To for toll building, the length of the raker can be reduced by introducing video raker.
- 3. Rakers should be properly braced at intervals,
- 4. The size of the rakers is to be devided on the basis of anticipated for thrust from the wall.
- s. The center line of a racker and the wall should meet at floor level.
- to longer length of the bass.
- 7. The sole plate should be properly embedded ento the ground on an inclination and should be of proper section and size.
- They are likely to give may under & vibrations that are likely to occur.

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18.3 DOUBLE OR COMPOUND FLYING SHORE.

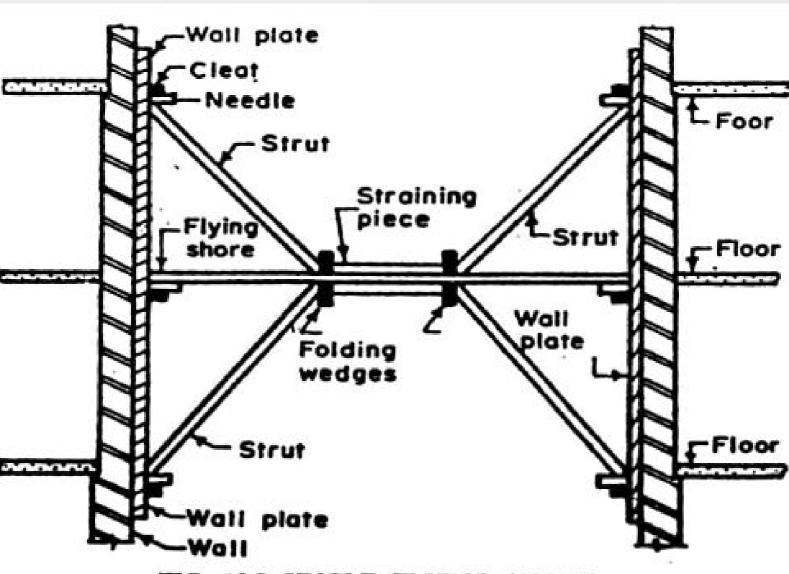


FIG. 18.2 SINOLE FLYING SHORE.

ead Shores:
This is consist vertical members known as Dead shores supporting horizontal member known as needles.
The needle transfer the load of the wall etc. to the dead shores. Such shoring is provided to serve for following purpose.
To rebuild the defective lower part of the wall.
To rebuild or deepen the existing foundation.
To make large opening in the existing wall at lower level.
Holes are made in the wall at suitable height needles which are made of thick wooden sections or of steel are inserted in the holes.
Each needle is supported at its two ends by vertical posts or dead shores.
Dead shores are supported on sole plates and folding wedges.

- Points to be kept in mind :-
- The section of needle and dead shore should be adequate to transfer the load, which can estimated with fair degree of accuracy
- Needles are spaced at 1 to 2 metres minimum three needles used for an opening.
- ✓ If the opening is made in an external wall, the length of outer dead shore
 will be greater than the inner ones.
- If the external wall is week raking shore may be provided in addition to the dead shores.
- Shores should be removed only when the new work has gained sufficient strength. But in no case earlier than 7 days of the completion of new work. The new work should have proper strutting.
- Y Sequence of removal should be ..1 needles...2 strutting from opening.....3

 Floor strutting...4 raking shore if any.
- An interval of 2 days should be allowed between each one of these removal operations.

