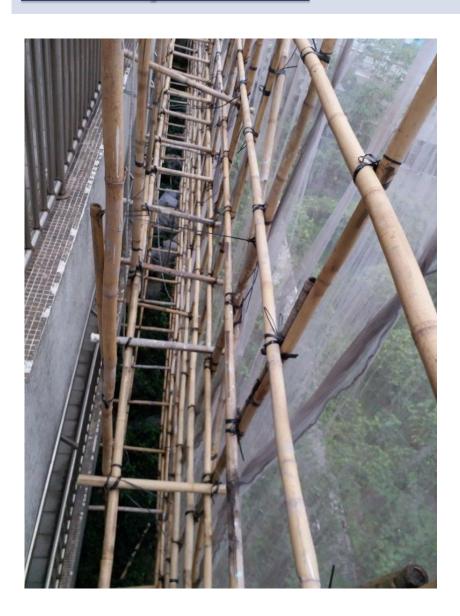
# Working Platform Practices of Bamboo Scaffolding

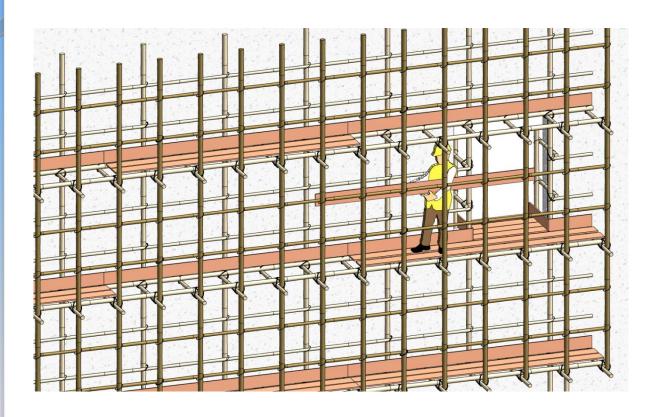
- 1. Main contractors responsible to construct bamboo scaffolding.
- 2. Main contractors provide suitable and adequate quantities of planks and toe boards.



External wall scaffolding at a maintenance project

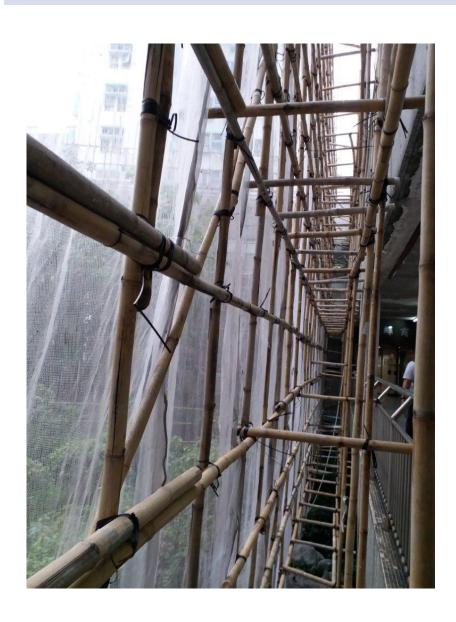


- 3. Subcontractors will be responsible for planks laying and subsequent removal of the working platforms on their work completion.
- 4. Main contractor to supervise the planks laying work are carried out safely and properly by the subcontractors.



The25mm thick, 2.0 to 4.0m long and hard wood planks weights 11~ 22kg each. It is risky for the workers to move the long and heavy wooden planks for working at different working locations or levels.

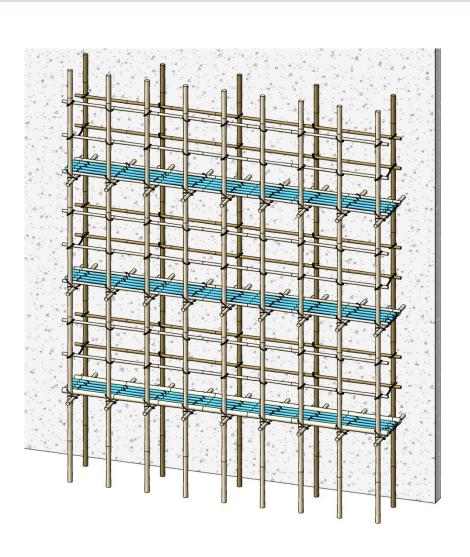
- 5. The workers are liable to fall to the lower floors when moving on the runs, laying the planks and platform construction.
- 6. Difficult and risky to move wooden planks from internal to the external scaffolding.
- 7. Difficult and risky to move and lay wooden planks as working platform at the external wall scaffolding.

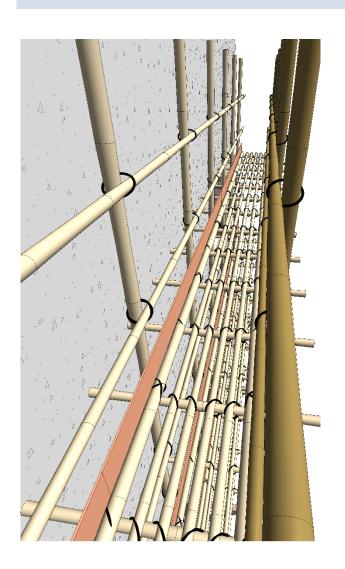


- 8. Separate groups (3 consecutive layers) of platforms need to be provided for trade workers working at different levels or locations.
- 9. Some minor work trades subcontractors or workers may take risk to lay a percentage of the required planks only.
- 10. The additional loading of fully boarded wooden platforms to the scaffolding and supporting brackets is high.

- 11. Risk of tipping when steps on a wooden plank which protrudes its end support more than 150mm.
- 12. Workers are reluctant to comply and do the physical hard work of planks laying and moving.
- 13. Main contractors unable to ensure their subcontractors or workers fully comply with the regulation on laying the wooden planks for the working platforms.

 How to improve the planking work safety and provide safe working platforms?







Industry Practice

- 1. Provide safe gangways for walking or movement at external wall scaffolding.
- Closely placed bamboo platforms are completed at the same time of scaffolding work.
- 3. The workers are prevented from falling to the lower floors when walking or planking at the gangway.

4. The number of ledgers at the platform level is increased from 2 to 6.

5. The clear gaps between two closely layed bamboo rods are less than 100 mm.

6. The rigidity of the external wall scaffolding is increased.

- 7. The loading capacity and safety factor of the platforms are trebled.
- 8. Use lighter and shorter planking (wooden or metallic) materials will be sufficient as a working platform.
- 9. Need to provide access between different working platform levels.



Photo on completed bamboo platform





Access to
 Scaffolding
 gangway/
 platform
 from internal
 of building.

- 10. Comparatively higher work efficiency when working or movement on a closely placed bamboo gangway or platform.
- 11. Greatly reduce the planking hard work and the risk of injury.
- 12. Avoid tipping and falling when step on a protruded end of a planking .
- 13. No overlapping of planks required.



Closely placed bamboo scaffolding with metallic planking

Thank you.