

Practical No.14: Prepare report with labelled sketches of inspected doors and windows components during site visit.

I. Practical Significance

Doors, windows and ventilators are essential parts of building. The main function of a door in a building is to serve as a connecting link between the internal parts and to allow free movement to the outside of the building. While a window is defined as an opening in a wall of a building to serve one or more of the functions like natural light, natural ventilation. Ventilators are provided in the rooms at the top of the roofs, just below the roofs because if the air inside the room gets hot the hot air rises up and flow through these ventilators.

II. Industry/Employer Expected outcomes (POs)

This practical is expected to develop the following skills for the Industry identified.

1. A student should be able to know various types of doors and window and its component part.
2. To know the position and how to fix.

III. Course Level Learning Outcomes

Design the relevant means of communication for the given building structure.

IV. Laboratory learning outcome(s)

Prepare a site visit report with respect to components of door and window along with types.

V. Relevant Affective Domain Relevant

1. Follow safety practices and precautions.
2. Maintain tools and equipment.

VI. Relevant Theoretical Background

1. Location of Doors, windows and ventilators.
2. Materials for Doors, windows and ventilators.
3. Size of Doors, windows and ventilators.

TERMINOLOGY

- **Frame:** It is the assembly of horizontal and vertical members placed along the top, bottom and sides of an opening so as to form an enclosure and support shutters.
- **Threshold:** This is a cross wooden member of the door at floor level to provide lateral stability to the frame. Sometimes, it may not be provided, in which case lateral stability is obtained by taking vertical member frames deeper into the floor.
- **Sill:** This is the lowermost horizontal member of a window frame.
- **Head:** This is the horizontal member of a frame.
- **Transoms:** This is the horizontal member of a frame employed to subdivide the opening.

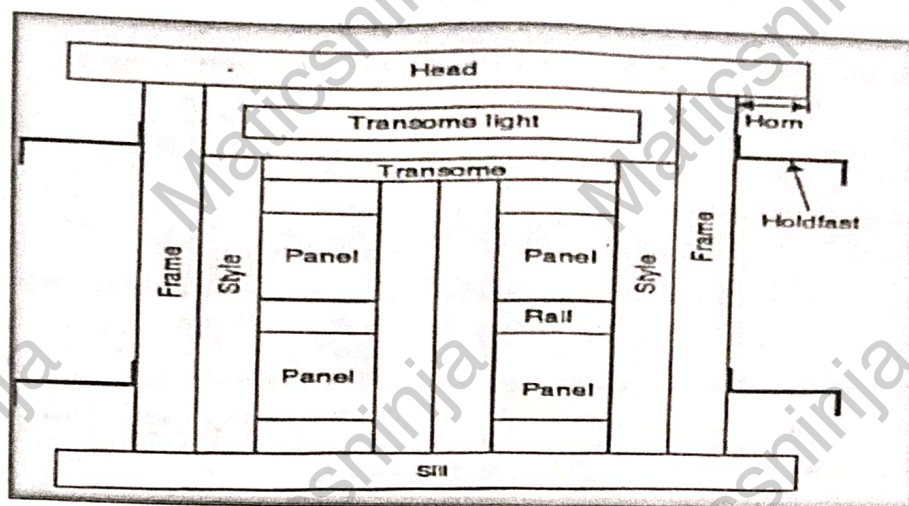


Figure 14.2: components Parts of Doors and windows

VIII. Resources required

Sr. No	Particulars	Specification	Quantity	Remark
1.	Models of Door	Model Showing all Component parts of door.	02 No	
2.	Models of Window	Model Showing all Component parts of door.	02 No	

IX. Precautions to be followed

1. Type of Doors, windows and ventilator.
2. Material used for Doors, windows and ventilator.
3. Various parts of Doors, windows and ventilator.
4. Sizes of Doors, windows and ventilator.
5. Listen and follow the instruction given by site in charge.
6. Maintain discipline during Visit

X. Procedure:

Field Visit Report

Date of Visit-----20 March 2025-----

Site Address-----Tarada Naka Nanded-----

Name of Project-----Residential building-----

Name of Contractor & Site Engineer-----Rathode M.S-----

Status of project-Completed/ongoing-----ongoing-----

XI. Observation Actual Procedure followed (Attached Photograph)



XII. Result

Design the all means of WH struction of the building structure.

XIII. Interpretation of results

it is the absembly of horizontal and verticle member placed.

XIV. Conclusions and Recommendations

this is the horizontal member of employed to subdivide the openings

XV. Practical Related Questions

1. Define following term sill, head, and horn.
2. Enlist the various parts of Doors, window and ventilators
3. Write the sizes of doors, window and ventilators
4. Discuss the location of doors, window and ventilators
5. Explain how door frame are fixed in the wall.

Q. 1 $\rightarrow$?

Ans:- ① Sill a horizontal structure member of the bottom of a window or door opening support the window frame and transfers loads to the walls made of wood concrete or stone

② Horn:- Helps in fixing the frame simply into the wall for suitability prevents movement and enges durability

Q. 2 $\rightarrow$?

Ans:- part of door:- ① Larm ② shutter ③ Head ④ sill ⑤ stile ⑥ rails ⑦ panels ⑧ Hinge ⑨ lock and handle part of window

Q. 3 $\rightarrow$?

Ans:- Doors : maintaince door maximum
1000 x 2100 standard
1200 x 2100
Internal doors
standard 900 x 2100

Bathroom 7500×2100

window standard Residential windows

(1200×1200) (1500×1200) (1800×200)

ventilators

$600 \text{ mm} \times 300$

900×450

Q. 9 $\longrightarrow$?

Ans:- ① location of doors

② main entrance

③ potential entrance on the front

wall for easy access.

XVII. References/Suggestions for further Reading

Sr. No	Links	Discription
1	https://www.youtube.com/watch?v=XsFeVuVQE-E	Identify types of doors, windows and ventilators
2	https://www.youtube.com/watch?v=Yg4BLy7f-il	Identify types of doors, windows and ventilators
3	https://youtu.be/lyKvxTOVGR4?si=KedfykyOcpnP0e3X	Identify types of doors, windows and ventilators
4	https://youtu.be/aKJ8CAI0GI4?si=IdJHS7rzHGoBuBoX	Different parts of Door & window