

Phius Guidance and Testing Rules for Trash and Compactor Rooms

Phius has provided three configuration options for modeling trash and compactor rooms. Project teams should be made aware of the strategy planned for the project so that the CPHC and Verifier are aligned with their understanding.

Option A: Include the ground level trash room, all trash rooms on subsequent floors, trash shaft and trash chute within the Certified envelope.

Durability Test:

Trash chute openings at the roof may be taped off. Dampered make-up air openings at the ground level trash room may be taped off during the test which would trigger the damper to fail (e.g., depressurization test).

Operational Test:

Trash chute opening at the roof may only be taped off if a continuous exhaust fan is provided.

WUFI Passive / METr Energy model:

If an exhaust fan is provided, model continuous direct exhaust flow rate and account for the exhaust fan energy as an auxiliary energy device.

Option B: Exclude the ground level trash room, trash shaft and trash chute from the Certified envelope. Include all trash rooms on subsequent floors.

Durability Test:

Trash chute doors may be taped with the same logic as a dampered louver (i.e., taped during the depressurization test due to the direction of the doors failure)

Operational Test:

No items may be taped.

WUFI Passive / METr Energy model:

Walls to the trash shaft and ground level trash room should be modeled. Doors to the ground level trash room and trash chute should be modeled. Ceiling above the ground level trash room should be modeled. An attached zone for the ground level trash room may be created and assigned to the outer side of all walls, doors and ceilings noted above. The temperature reduction factor for the attached zone may be set to either a conservative 0.95 or calculated using the Phius TRF Auxiliary Energy Estimator when a space heating system is provided.

(Phius recommends frost-protection be provided for spaces in cold climates). If an exhaust fan is provided, account for the exhaust fan energy as an auxiliary energy device.

Option C: Exclude the ground level trash room, all trash rooms on subsequent floors, trash shaft and trash chute from the Certified envelope.

Durability Test:

No items may be taped.

Operational Test:

No items may be taped.

WUFI Passive / METr Energy model:

Walls to the ground level trash room (and all subsequent floors) should be modeled. Doors to the ground level trash room (and all subsequent floors) should be modeled. Ceiling above the ground level trash room should be modeled (assuming the ground level trash room is not the exact same size as the trash rooms on subsequent floors above). An attached zone for the ground level trash room (and all subsequent floors) may be created and assigned to the outer side of all walls, doors and ceilings noted above. The temperature reduction factor for the attached zone may be set to either a conservative 0.95 or calculated using the Phius TRF Auxiliary Energy Estimator. If an exhaust fan is provided, account for the exhaust fan energy as an auxiliary energy device.