TREATMENT SPECIFICATIONS & INSTALLATION GUIDE

Preliminary Materials, Locations, and Installation Sequence

Project	XXXX Home Theater
Submitted by	XXXXXXX
Prepared by	XXXXXXXXXX
Room	23 ft x 18 ft x 8 ft 3 in
Report status	Preliminary design guidance - test project

This report is based on submitted dimensions, photographs, system information, and project goals. Final treatment locations and quantities should be verified after construction is substantially complete and before permanent acoustic treatments and decorative finishes are installed.

1. Room and System Summary

Room	23 ft x 18 ft x 8 ft 3 in
Seating	Two rows; rear riser
Floor finish	Wall-to-wall carpet
Wall / ceiling finish	Drywall; fabric-covered wall bays planned
System	7.1.2 submitted; one subwoofer
Design status	Preliminary - verify before permanent installation

2. Preliminary Treatment Layout

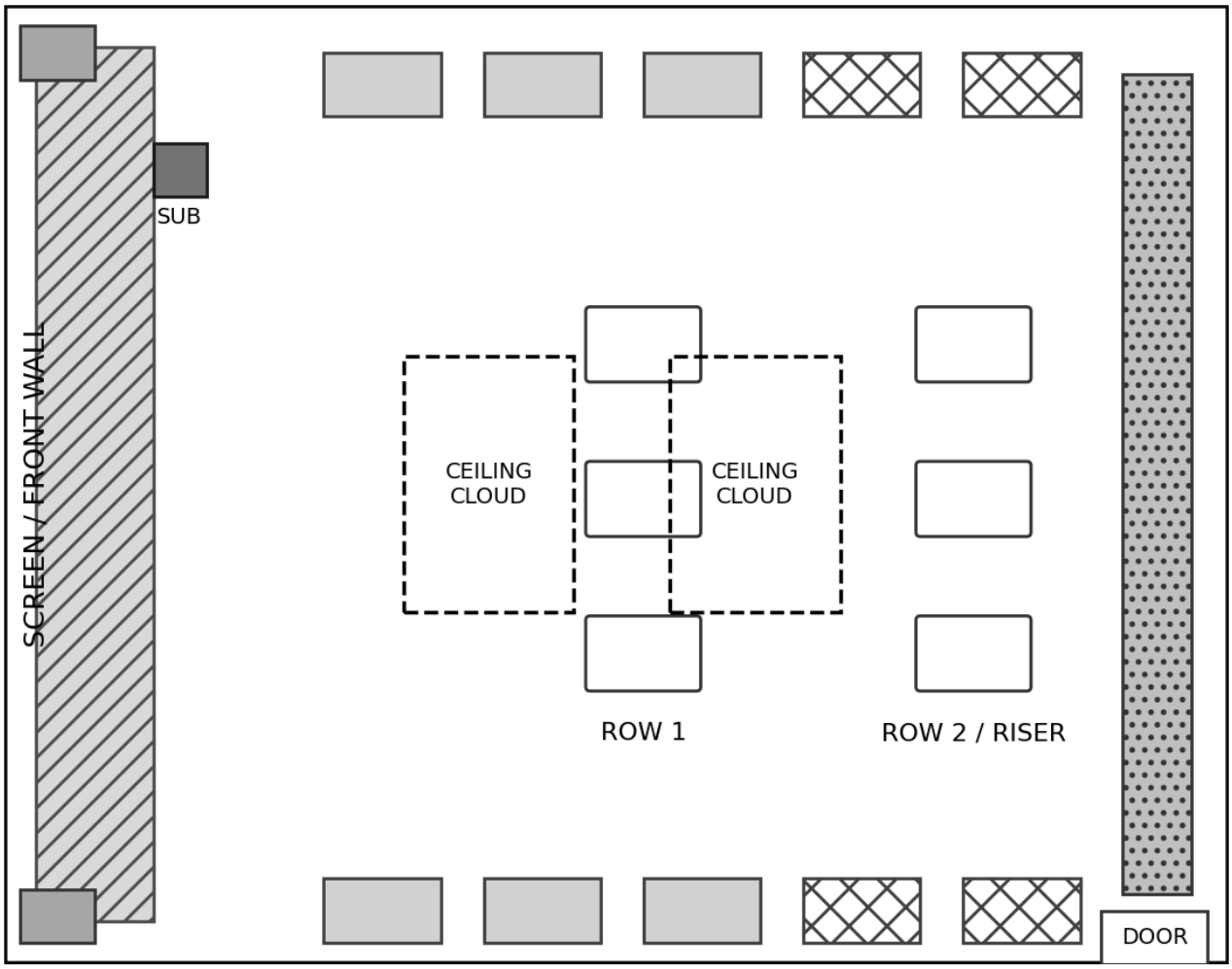


Figure 1. Preliminary treatment zoning. Locations are conceptual and must be coordinated with final millwork, loudspeaker coordinates, seating centers, door swing, and available treatment depth.

3. Treatment Schedule

ID	Location	Treatment	Nominal depth	Coverage / quantity	Primary purpose
FW-1	Screen wall	Broadband absorber behind screen	4 in min + 2-4 in air gap	Full practical width and height around LCR	SBIR and front-wall reflection control
BT-1	Front left and right corners	Floor-to-ceiling bass traps	16-24 in face or 4 in straddled panel	2 units	Low-frequency pressure control

ID	Location	Treatment	Nominal depth	Coverage / quantity	Primary purpose
SW-1	Side-wall first-reflection zones	Broadband absorber	4 in preferred	One principal zone per side; final mirror points to be verified	Dialogue clarity and imaging
SW-2	Adjacent forward side-wall bays	Broadband absorber	2 in min	As required by bay layout	Supplemental reflection control
HY-1	Rear half of side walls	Hybrid absorber / slatted facing	2-4 in absorber	Selected bays, not continuous	Maintain spaciousness while controlling decay
RW-1	Rear wall behind second row	Deep broadband absorber	4-6 in + air gap	Maximum practical central coverage	Delayed reflection and rear-seat bass control
BT-2	Rear corners	Deep corner absorption	4-6 in or larger	2 units where architecture permits	Low-frequency control
CC-1	Between screen and first row	Ceiling cloud	2-4 in + 2-4 in air gap	One coordinated array	Ceiling reflection control
CC-2	Above first seating row	Ceiling cloud	2-4 in + 2-4 in air gap	One coordinated array	Early-reflection control
RS-1	Rear seating riser	Fibrous cavity fill	Cavity depth	Fill accessible void; vent only by design	Reduce riser resonance / possible bass absorption
DR-1	Rear door	Solid-core door with seals	N/A	1 door	Isolation and rear-boundary control

4. Material Specifications

- Absorptive core: semi-rigid mineral wool or fiberglass suitable for broadband acoustic treatment.
- Front wall: black acoustically transparent facing fabric behind the screen.
- Exposed wall bays: decorative acoustically transparent stretch fabric.
- Hybrid sections: wood slats, battens, or perforated facings over absorptive backing; avoid sealing the full surface with solid plywood.
- Corner traps: triangular superchunks, deep concealed rectangular traps, or heavy straddled panels with open cavity behind.
- Ceiling clouds: rigid framed panels with secure structural suspension and unobstructed Atmos speaker radiation.
- Avoid thin foam as a primary treatment material.

5. Installation Sequence

1. Confirm final room dimensions, screen wall, seating centers, loudspeaker coordinates, millwork bay dimensions, door swing, and available treatment depth.
2. Install deep screen-wall absorption and both front corner traps before the screen and decorative finish are completed.
3. Fill and close the riser cavity; coordinate any intentional vents.
4. Install side-wall broadband absorption at verified first-reflection zones.
5. Install deep rear-wall and rear-corner treatment, coordinating the left-rear door.
6. Install ceiling cloud framing and suspension around Atmos loudspeakers.
7. Install hybrid slatted or perforated facings in selected rear-side bays.
8. Apply acoustically transparent decorative fabric and complete trim.
9. Position subwoofer(s), perform measurement and calibration, and evaluate whether a second subwoofer is required.

6. Field Coordination Notes

- Do not make treatment visually symmetrical where the door or loudspeaker geometry requires an acoustically asymmetrical solution.
- Do not cover Atmos loudspeakers or block their radiation paths.
- Do not compress fibrous material tightly in corner traps or riser cavities unless required by the selected product.
- Maintain access to wiring, service points, and equipment.
- Final quantities cannot be established until wall-bay dimensions and exact coordinates are confirmed.

7. Preliminary Bill of Materials

Category	Preliminary allowance	Notes
4 in broadband material	Screen wall, principal side reflection zones, rear wall, corner assemblies	Exact square footage requires millwork bay dimensions
2 in broadband material	Secondary side bays and headroom-limited cloud locations	Use 4 in where space permits
Acoustically transparent fabric	All exposed treatment surfaces	Black behind screen; decorative fabric elsewhere
Hybrid facing material	Selected rear-side bays	Open slat/perforation ratio to be finalized
Cloud framing and suspension	Two principal ceiling arrays; optional rear extension	Coordinate structure and Atmos locations
Door seals	Full perimeter plus automatic bottom or threshold	Use with solid-core door

8. Verification Before Permanent Installation

Submit updated photographs when framing, drywall, millwork, riser, seating platforms, speaker openings, and lighting are substantially complete, but before acoustic materials and decorative fabric are permanently installed. Include revised dimensions and any equipment or layout changes. The final review should confirm exact treatment coverage, resolve conflicts, and reduce the risk of costly changes after finish installation.