Theatre Guidelines

- Room should generally be rectangular in shape with the length (depth from screen) being more than the width. None of the ratios (H x W x L) should be perfect multiples of each other. Good ratios are 1 x 1.3 x 1.7 OR 1 x 1.3 x 1.9 or .9 x 1.3x1.6.
- Key equipment:
  - Screen
  - Projector
  - Amplifier
  - Sound system / speakers
  - Media (DVD/Blu Ray etc.) Player
- The theatre room should be acoustically confined such that sound from outside is not heard inside and similarly sound from inside is not heard outside. NC 30 ambient noise level is desirable; NC 40 is max. acceptable. (Maximum permissible sound heard on the other side of the source is 40 dB.)
- Room should be dark with no natural light.
- Particular attention should be given to the ceiling colour - use a dark non-reflective colour; go for black if your big screen size is such that the upper part of your home theater screen is very close to the ceiling.
- For theatres located at residential projects (non-sales office), a group of films/shows (DVD/other format) shall be provided by Lodha. In such theatres, Cable/Satellite TV connectivity shall also be provided.
- If Theatre/Cinema is planned for >= 51 seats, it should be planned in a manner that it can also be used as an auditorium/performance venue with stage and green rooms (has been done at Lodha Splendora, Thane in 2014).
- Area of the hall should be about 15-17 sq. ft. per seat. In order to achieve this, seat to seat distance should be kept optimal such that once seat is unfolded for seating, gap to the back of the next seat is 12”-15” (this clause does not apply to gold-class seating where the area per seat and seat-to-seat gap will be larger).
- Note: Theatre/Auditorium – Protruding columns from the wall surface housing the screen to be avoided so as to allow mounting of speakers behind(in the cavity between Wall & Screen) .In case protruding cannot be avoided – location of speaker will be compromised leading to fall in audio output, which shall not be acceptable.
- Recommended reference documents:
  http://www.practical-home-theater-guide.com/home-theater-room-design.html#part-1

Home Theatre Seating Guide 2011

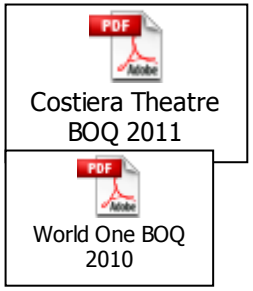
Home Theatre Design Guide r2 2011

Different types of theatres:

	Small Luxury	**Small Mass Market**	**Medium Luxury**	**Medium Mass Market**	**Full Size Theatre**
Likely usage	Luxury / hi-end residential having < 100 units; Sales office of Luxury and Hi-end projects	Sales offices of Aspirational and Casa Projects	Luxury / hi-end residential having > 100 units	Casa and Aspirational projects	Malls; Specialized Theatre
No. of seats	8-16	8-16	20-36	30-50	100+ (typically 200-300)
Type of Seats	Gold class – wide; electronically controlled reclining upto 150° -160° recline – however, in Sales office recline should be restricted/like regular seats; plush; with dining tables (one for each site or one between two seats) and individual drink holders; preferably (faux) leather	Regular with individual drink holders	Gold class – wide; electronically controlled reclining upto 150° -160° recline; plush; with dining tables (one for each site or one between two seats) and individual drink holders; preferably (faux) leather		Gold class/Regular – dependent on likely usage and geographical location.
Riser	12 '' (to enable every row vision)	6-8'' (to enable dual row vision)	12 '' (to enable every row vision)	6-8'' (to enable dual row vision)	As per theatre design consultant
Internal Access to seats	Side aisles to maximize viewing dynamics	Central aisles to maximize efficiency	Side aisles to maximize viewing dynamics	Central aisles to maximize efficiency	Central aisles to maximize efficiency
Internal	**Reflective materials – hard surfaces such as** wooden or ceramic tile flooring, gypsum partitioning and concrete ceilings				

finishes	**Absorptive materials – soft surfaces such as carpet, curtains,** **1] Carpeting** is essential especially between the front speakers and the listener to catch the first reflective sound waves. **2]** The use of **acoustical wall paneling** or curtains close to the front speakers will also help in this respect. However, do not fall into the temptation of painting the acoustic paneling - this will only reduce their effectiveness. **3]** Other **soft furnishings** such as sofas and cushions will also contribute to absorb some of the echo. **4]** On the other hand, the **ceiling** should preferably be an all-hard surface so as to carry the sound from front to back while helping to further diffuse the surround within the room. As a **rule of thumb**, the home theater room design should aim at having some 50% of the total room surface area - wall, ceiling, and floor area, **absorptive**. Most of these absorptive surfaces should be within the front part of the home theater room. The rear part of the room should contain surfaces that are more **reflective**; this will help diffuse better the surround sound within the room from the rear speakers.				
Wow Factors	Picture quality; Fancy Popcorn machine; personal pillow and blankets for each seat	NA	Picture quality; Fancy Popcorn machine; personal pillow and blankets for each seat	NA	
Nearby facilities	Toilets (even a unisex toilet is ok)	Toilets (even a unisex toilet is ok)	Toilets (male and female)	Toilets (male and female)	Food Stalls; Toilets (male and female)

Reference Image					
Lodha reference project	Costiera			Aria (slightly smaller)	
Whether theatre design consultant is to used	No	No	No	No	Yes
Whether special AV consultant is be used	Yes (however, if similar existing plans / AV details are available, same may be used / built upon)	No (maybe needed first time for one-time knowledge again)	Yes (however, if similar existing plans / AV details are available, same may be used / built upon)	No (maybe needed first time for one-time knowledge again)	Yes
Referenc		Good brands but not		Good brands but not	As per theatre

e equipment / BOQ	 Top performance brands.	necessarily for name value (eg. Bose is not needed unless cost effective).	Top performance brands. 	necessarily for name value (eg. Bose is not needed unless cost effective).  Aria Theatre BOQ 2011	design consultant
Reference Plan					As per theatre design consultant
Reference Public Theatre		INOX, Nariman Point	Big Cinema Metro Ebony Lounge, Mumbai	INOR, Nariman Point / PVR, Phoenix Mills	