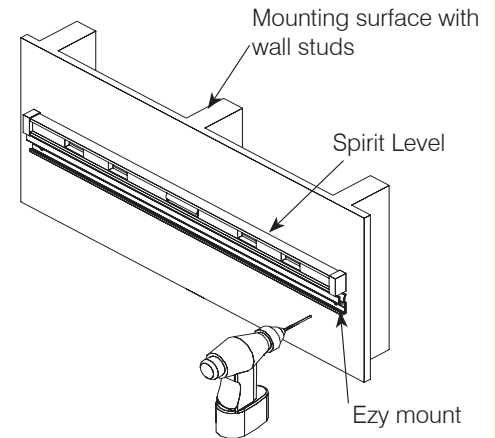
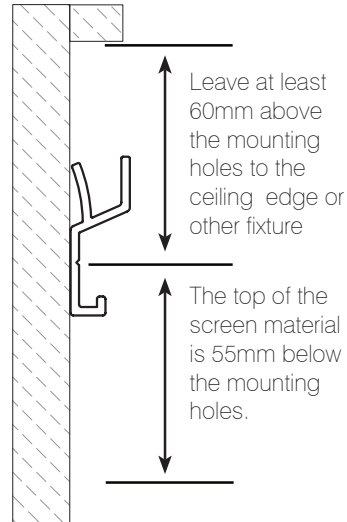


## Read before assembly

Please read these instructions completely before installing your Galleria Plana AT Frame Screen. If you are unsure about installing this product or the setup up of your projector we recommend installation by a Professional AV Installer.

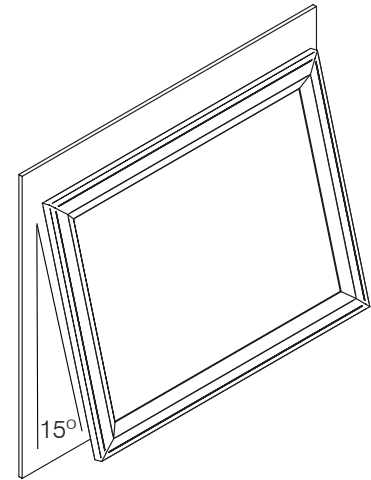
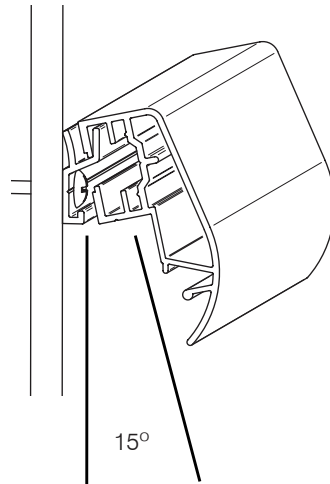
### Installing the Ezy mount.

Carefully measure the desired screen position. Always use a level as the ceiling or walls may not be square. Measure, drill and fasten the Ezy grip to the wall using at least three screws appropriate to the wall type (not supplied).



### Hanging the screen

Tilt the screen 15° to hook onto the Ezy mount. When you have hooked the screen onto the Ezy mount then lower it against the wall



### Cleaning your Plana AT surface

- Remove dust with vacuum cleaner or compressed air.
- Do not scrub. Do not use solvents or any abrasive substance which might damage the coating of the fabric.
- For small stains removal, try rubbing the fabric very gently with a clean white pencil eraser.
- Clean the screen with a mild detergent solution and a sponge or lint free cloth. Dab lightly to remove any stubborn marks, then blot with a damp sponge to absorb excess water. Dab off the detergent with clean water and dry with a soft cloth or towel. Do not let the detergent dry on the screen.

### Cleaning your frame

- If your frame is powder-coated or anodised, use water with a mild detergent or methylated spirits and a soft cloth to wash off any marks.
- Rinse and dry with a clean cloth or towel. Take care not to wet the screen surface.
- If your frame features a flocked velour finish, use a lint brush to remove any dust on the frame.

# LPM Fact Sheet - Plana AT

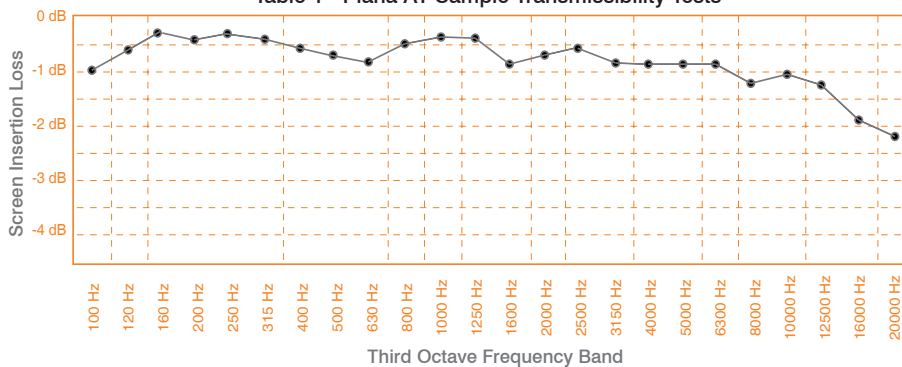
**LP Morgan Plana AT fabric is an innovative solution for maximising the visual and aural experience.**

A specially designed woven fabric, it allows for speakers to be placed behind the screen with virtually no loss of sound quality. It gives home theatre designers the freedom to place speakers for optimal full range audio performance.

With a massive 800,000 plus openings per square metre, Plana AT sound transmission patterns are similar to high quality speaker grille cloth. And just as importantly, visually there is only 6% light loss.

**Plana AT the perfect partnership - sound and vision**

**Table 1 - Plana AT Sample Transmissibility Tests**



### Test Procedure

Testing the AT1200/ATGrey acoustically transparent material was performed by engineers at Auralex Acoustics in Indianapolis, IN in November 2005. A Klipsch loudspeaker was positioned in a semi-anechoic test room such that is simulated a centre-channel configuration in a typical theatre set up. An Earthworks omni-directional microphone was placed 24" from the loudspeaker. Wideband (20-20,000 Hz) pink noise was played through the loudspeaker using the Goldline Audio Toolkit DVD. The third-octave band levels were measured with TerraSonde Audio Toolbox 3 analyser using Real-Time Analyses (RTA) module.<sup>1</sup> The overall noise level was set such that the signal-to-noise in the test room was at least 25dB in all bands of concern. A 30 second average of the sound level was measured and saved with no screen sample in place. Using the temporary screen framing apparatus, the screen samples were placed between the loudspeaker and the microphone. The wideband pink noise signal was played again through the loudspeaker and the third-octave band levels were measured and saved for each screen sample. Nominal screen sample size was 1600mm wide by 900mm high. The distance from the microphone to screen sample surface was 450mm. (Note: Different screen-to-loudspeaker and/or screen-to-microphone distances yielded no significant changes in the measured results.

<sup>1</sup> Microphone and analyser were calibrated to 94dB (SPL) at 1 kHz. Levels were measured from 25-20,000 Hz, but only the bands of concern for transmissibility are reported. i.e. 100-20,000 Hz.

### Why use an Acoustically Transparent Screen

When installing a home theatre system, the proper set up for the sound system ensures the highest quality results. The ideal position for the main speaker is behind the screen on the same level as the right and left speakers. This maintains:

- Quality sound localisation for the dialogues and overall sound effects
- Cinema quality that is true to the original sound mixing engineering
- The ability to use identical speakers due to space restrictions and avoids interference with other objects on the floor or ceiling

Tables 1 & 2 show the third-octave band insertion loss results in detail from 100 through 20,000 Hz. and summarises the average and maximum screen insertion loss (IL) for each screen sample, as well as the band which the maximum IL occurred. These results are valid for the third-octave bands between 100 and 20,000 Hz.

**Table 2**

Band	AT1200	AT Grey
100 Hz	-0.7 dB	-0.9 dB
125 Hz	-0.4 dB	-0.4 dB
160 Hz	0.0 dB	-0.3 dB
200 Hz	-0.2 dB	-0.3 dB
250 Hz	-0.1 dB	-0.3 dB
315 Hz	-0.2 dB	-0.4 dB
400 Hz	-0.4 dB	-0.5 dB
500 Hz	-0.5 dB	-0.6 dB
630 Hz	-0.6 dB	-0.8 dB
800 Hz	-0.3 dB	-0.5 dB
1000 Hz	-0.2 dB	-0.3 dB
1250 Hz	-0.2 dB	-0.2 dB
1600 Hz	-0.7 dB	-0.9 dB
2000 Hz	-0.5 dB	-0.7 dB
2500 Hz	-0.4 dB	-0.5 dB
3150 Hz	-0.6 dB	-0.7 dB
4000 Hz	-0.6 dB	-0.8 dB
5000 Hz	-0.6 dB	-0.7 dB
6300 Hz	-0.6 dB	-0.7 dB
8000 Hz	-1.0 dB	-1.0 dB
10000 Hz	-0.9 dB	-0.9 dB
12500 Hz	-1.0 dB	-1.6 dB
16000 Hz	-1.6 dB	-2.3 dB
20000 Hz	-2.0 dB	-2.8 dB
Max.	-2.0 dB	-2.8 dB
Avg.	-0.6 dB	-0.8 dB

Designed and made in Australia, LP Morgan can create a tailor made solution to your requirements. Herma Technologies is a leading Australian supplier of quality projection screens, mounts and custom built projection systems. Factory 4a, 6 Albert Street Preston Vic 3072 Phone +61 3 9480 6233 Fax +61 3 9480 6533 Email sales@lpmorgan.com.au

View the full range at [www.lpmorgan.com.au](http://www.lpmorgan.com.au) or call 1300 730 025 for your nearest dealer.