

# Storm Front Sound & Vision Consultants

## THX Home Theater Calibration



Client Name and Contact Information: Stephen Withers

Date of This Report: 23<sup>rd</sup> March 2010

Job Name: Example

Verify everything is implemented per design requirements

### Part 1 Physical Characteristics

Room Data	Size	Doors	Windows
	4.99m x 2.67m x 2.37m	One Door	One Window

Isolation Features	Door Seals	Window Seals	Air Leaks Blocked	Wall Construction
OK?	No	Yes	Yes	Brick

Light Control	Window Coverings	Light Location	Light Type
OK?	Blackout Curtains	Side and Rear	Lamps

HVAC	Vent Locations	Flow Control	Noise Level NC <25
OK?	None	N/A	N/A

Acoustic Treatments	Absorption	Diffusion	Reflection	Curtains	Furniture
OK?	None	None	Yes	Yes	Yes

Seating	Type	Number	Location OK?
Describe	Sofa	One	Yes

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Display Screen	Size	Type	Location (Distance to Main Seat)
Describe	8'	Matte White 1.3 Gain	3.5m

Projector	Type	Location	Noise "A" Wtd. <25
Describe	DILA	Shelf/Back/Central	Yes

Speakers	Type	Number	Location OK?
LCR	B&W 600 Series	3	Yes
Surround	B&W 600 Series	4	Yes
Sub	B&W 600 Series	1	Yes
Electronics	Type	Location	Isolation - Cooling
AVR	THX 7.1 Channel	Back	No
Blu-ray Player	Two	Back	No
Set Top Box	None	N/A	N/A
DVD Player	One	Back	No
Connections	Audio Level	Speaker Level	A/V Digital Data
OK?	Good	Good	Good

### Part 2 Product Setup:

Controller (AVR)	Speaker Setup THX	THX Bass Management	Dial Norm 27	Processing Off	LFE Level 0	Input Configuration
OK?	Yes	Yes	Yes	Yes	Yes	Yes

Amplifier	Input Level (Ref)	Filters Off	Auto on/off
OK?	Yes	Yes	On

Satellite Speakers	Tone Switches to "0"	BiWire / BiAmp
OK?	Yes	No

Subwoofer	Input Level (Ref)	Phase "0" or +	Crossover Off	EQ - Off
OK?	Yes	0	Yes	Yes

Source Products	Highest Quality Output	Highest Quality Setup
Blu-ray Player	1080p	1080p24 via HDMI
Set Top Box	N/A	N/A
DVD Player	480/576i	480/576i via HDMI to Video Processor
Video Processor	1080p	1080p24 via HDMI

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### Part 3 Verification:

Using a digital volt meter

Speaker Wire	Left	Center	Right	L Surr	L Back	R Back	R Surr
DC Resistance <0.2 Ω	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Input, 1kHz – 20 dBfs (0dBr) all channels the same if not exactly 2.9V

AVR (Amp)	Left	Center	Right	L Surr	L Back	R Back	R Surr	Subs (30Hz)
Voltage ~2.6V	2.5	2.6	2.5	2.7	2.6	2.6	2.7	95mV

Using a digital volt meter or Real Time Analyzer

Bass Management	Left	Center	Right	L Surr	L Back	R Back	R Surr	Sub
Level Change at Xover OK	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Using a digital input at minus ∞ (digital Black)

No audible noise (-60dBr)	Left	Center	Right	L Surr	L Back	R Back	R Surr	Sub
OK?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

20Hz to 1kHz Sine Sweep at progressively louder levels

Speaker rub or buzz	Left	Center	Right	L Surr	L Back	R Back	R Surr	Subs
OK?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes