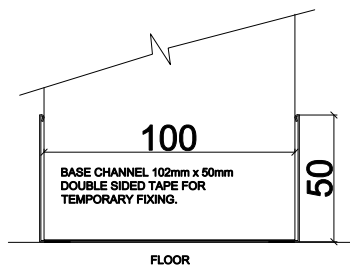




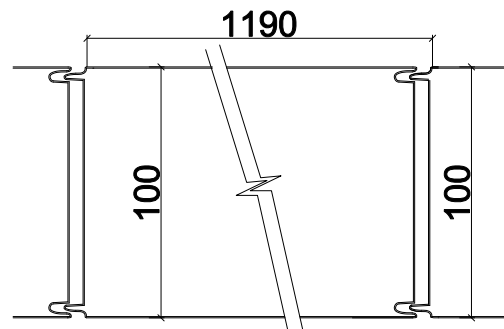
Product Range: Soundmaster
Drawing Title: Typical Fixing Details 1/2
Drawing Number: HYG0001 **Rev:** 00
Drawing Scale: 1:2/1:5 when printed at A4
Drawing Issue Date: 30th July 2011

SOUNDMASTER FOR WALLS & CEILING APPLICATIONS.
INTERNAL & EXTERNAL COMPOSITE PANELING GIVING UP TO 2 HOUR FIRE RATING
10.73m high x 1190mm wide x 100mm thick FLAT PANEL

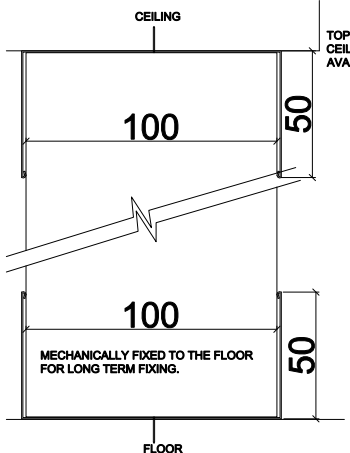
BASE CHANNEL 1:2



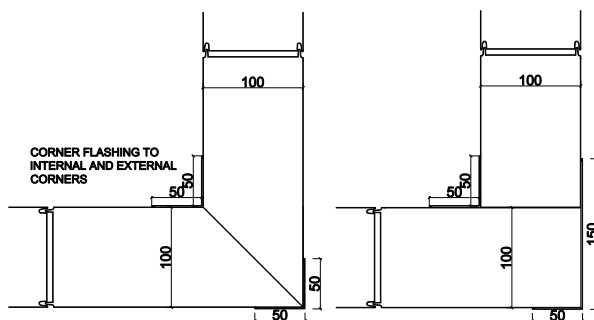
PANEL 1:2



HEAD & BASE CHANNEL 1:2



TOP FIX HEAD CHANNEL TO CEILING STRUCTURE IF IT IS AVAILABLE ABOVE.



CORNERS 1:5

NOTES

POLYISOCYNAUTRATE (PIR) AND MINERAL FIBRE PROVIDE GOOD INSULATION AND FIRE BARRIER. THE EXTERNAL/INTERNAL FACING MATERIAL IS HOT DIPPED GALVANISED STEEL 0.5 OR 0.7MM THICK. THE STANDARD PANEL WIDTH IS 1190MM AND THE THICKNESS RANGES FROM 40mm UP TO 200mm. HYGIENIK RECOMMEND THE USE OF INTUMESCENT MASTIC WHEN INSTALLING FIRE RATED PANELS. RIVETS AND TEK SCREWS ARE COMMONLY USED TO FIX ACCESSORY FLASHINGS AND BASE CHANNEL ITEMS. THE 150MM THICK MF PANEL CAN GIVE 2HR FIRE RATING UP TO 10.73M WITH NO INTERMEDIATE FIXINGS JUST SECURED TOP AND BOTTOM ON ALL PANEL THICKNESS.

PLEASE REVIEW TABLES 1, 2 AND 3 ON THE FOLLOW SHEET (HYG0002) FOR COMPOSITE PANEL TECHNICAL DATA, LOAD SPANS, THERMAL PROPERTIES, PANEL WEIGHT AND SOUND PROPERTIES.

CLEANING STRATEGY FOR O&M MANUALS SEE CSO&M DATA SHEET.

NBS Ref: H43 120

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Product Range: Soundmaster
Drawing Title: Technical Data sheet 2/2
Drawing Number: HYG0002 **Rev:** 00
Drawing Scale: NTS when printed at A4
Drawing Issue Date: 30th July 2011

SOUNDMASTER FOR WALLS & CEILING APPLICATIONS.
INTERNAL & EXTERNAL COMPOSITE PANELING GIVING UP TO 2 HOUR FIRE RATING

TABLE 1
COMPOSITE PANEL TECHNICAL DATA, LOAD SPANS

Panel Thickness (mm)	Wall spans (m)										Ceiling / roof (m)									
	Maximum allowable loads (kN/m²)										Maximum allowable loads (kN/m²)									
	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0			3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0		
MF 10 (MINERAL FIBRE)	1	0.5	0.3	0.2						4.95	0.3									3.05
MF 12.5	1.1	0.6	0.3	0.2						5.07	0.4									3.35
PIR (POLYISOCYNAUTRATE)	0.8	0.5	0.3	0.2						4.80	0.1									2.71
MF 10 (MINERAL FIBRE)	1.8	1.0	0.6	0.4	0.3					6.55	1.1	0.4	0.1							4.50
MF 12.5	2.2	1.1	0.7	0.4	0.3					6.70	1.5	0.6	0.2							4.77
PIR (POLYISOCYNAUTRATE)	1.5	0.9	0.5	0.3	0.2					6.37	0.8	0.3	0.1							4.26
MF 10 (MINERAL FIBRE)	2.8	1.6	1	0.6	0.4	0.3				7.98	2.1	1.1	0.5	0.2						5.78
MF 12.5	3.4	1.8	1.1	0.7	0.5	0.3				8.14	2.7	1.3	0.6	0.2						5.98
PIR (POLYISOCYNAUTRATE)	2.3	1.3	0.8	0.6	0.4	0.3				7.79	1.5	0.8	0.4	0.2						5.60
MF 10 (MINERAL FIBRE)	3.7	2.1	1.3	0.9	0.6	0.4	0.3	0.2	9.31		3	1.7	0.9	0.5	0.2					6.88
MF 12.5	4.7	2.6	1.6	1	0.7	0.5	0.3	0.3	9.47		4	2.1	1.1	0.6	0.3					7.07
PIR (POLYISOCYNAUTRATE)	2.9	1.6	1	0.7	0.5	0.4	0.3	0.2	9.09		2.3	1.3	0.8	0.4	0.2					6.83
MF 10 (MINERAL FIBRE)	4.5	2.5	1.6	1.1	0.8	0.6	0.5	0.3	10.54		4.1	2.3	1.4	0.8	0.5	0.2				7.90
MF 12.5	4.5	3.3	2.1	1.4	0.9	0.7	0.5	0.4	10.73		4.1	3	1.7	0.9	0.5	0.3				8.05
PIR (POLYISOCYNAUTRATE)	3.4	1.9	1.2	0.9	0.6	0.5	0.4	0.3	10.12		3.1	1.8	1	0.6	0.4	0.2				7.75
PIR (POLYISOCYNAUTRATE)	4	2.2	1.4	1	0.7	0.6	0.4	0.4	10.93		3.9	2.2	1.3	0.8	0.5	0.3	0.2			8.47
PIR (POLYISOCYNAUTRATE)	4	2.2	1.4	1	0.7	0.6	0.4	0.4	11.89		4.7	2.6	1.5	1	0.6	0.4	0.3	0.2		9.14

Maximum recommended panel height given internal air pressure load of 0.3 kN/m²

Maximum ceiling panel span in accordance with BS 6399 for walk on ceilings.

TABLE 2
THERMAL PROPERTIES

Insulation Materials	Thermal Conductivity (W/m degree C)	U Value (W/m2 degree C)									Recommended Thickness for U Value (0.45W/m2 degree C)
		50	75	100	125	150	175	200	250	300	
MF (MINERAL FIBRE)	0.042	0.85	0.51	0.39	0.32	0.27	0.23	0.20	0.16	0.14	100
LPC PIR (POLYISOCYNAUTRATE)	0.022	0.41	0.28	0.21	0.17	0.14	0.12	0.11	0.09	0.07	50

TABLE 3
PANEL WEIGHT kg/m²

	(Panel Thickness (mm))									
	50	75	100	125	150	175	180	200		
MF 10 (MINERAL FIBRE)	14.6	17.1	19.6	22.1	24.6	-	-	27.6	-	-
MF 12	15.9	19.0	22.1	25.2	28.4	-	-	-	-	-
LPC PIR (POLYISOCYNAUTRATE)	11.6	12.6	13.6	14.6	15.6	16.6	-	19.6		

SOUND PROPERTIES

100 mm isoclad panel with 140kg/m³ density mineral fibre core. Rw 35dB
50 mm isoclad panel with 140kg/m³ density mineral fibre core. Rw 30dB
40 mm isoclad panel with 30kg/m³ density polystyrene core. Rw 27dB

NOTES

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TABLES 1, 2 AND 3 ABOVE SHOWS THE TECHNICAL DATA, FOR COMPOSITE PANELS FOR LOAD SPANS, THERMAL PROPERTIES, PANEL WEIGHT AND SOUND PROPERTIES.

CLEANING STRATEGY FOR O&M MANUALS SEE CSO&M DATA SHEET.

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