



The information contained in this report is not intended to convey the complete and detailed findings and/or application requirements of the suppliers materials. For full specification details please consult the latest relevant Company trade literature.

Acoustic Test Report Number

2030

Date 16/4/92

BRITISH GYPSUM'S SOLUTIONS

THE GYPROC GYPLYNER SYSTEM AS A REPLACEMENT
CEILING (DOUBLE LAYER 12.5mm WALLBOARD).

Test carried out for

British Gypsum Limited
Marketing Department.

P. Royle
Laboratory Manager



TESTING
No. 0296

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Leake, Loughborough, Leics.

BRITISH GYPSUM'S SOLUTIONS

*The Gyproc Gyplyner System as a replacement ceiling
(double layer 12.5mm wallboard).*



Tests carried out by: *The Building Acoustics Laboratory.*
British Gypsum Limited,
East Leake, Loughborough,
Leicestershire. LE12 6JT.
NAMAS No. O296, 0296S1

Dates of Tests: Base - 13/04/88 Upated - 15/4/92

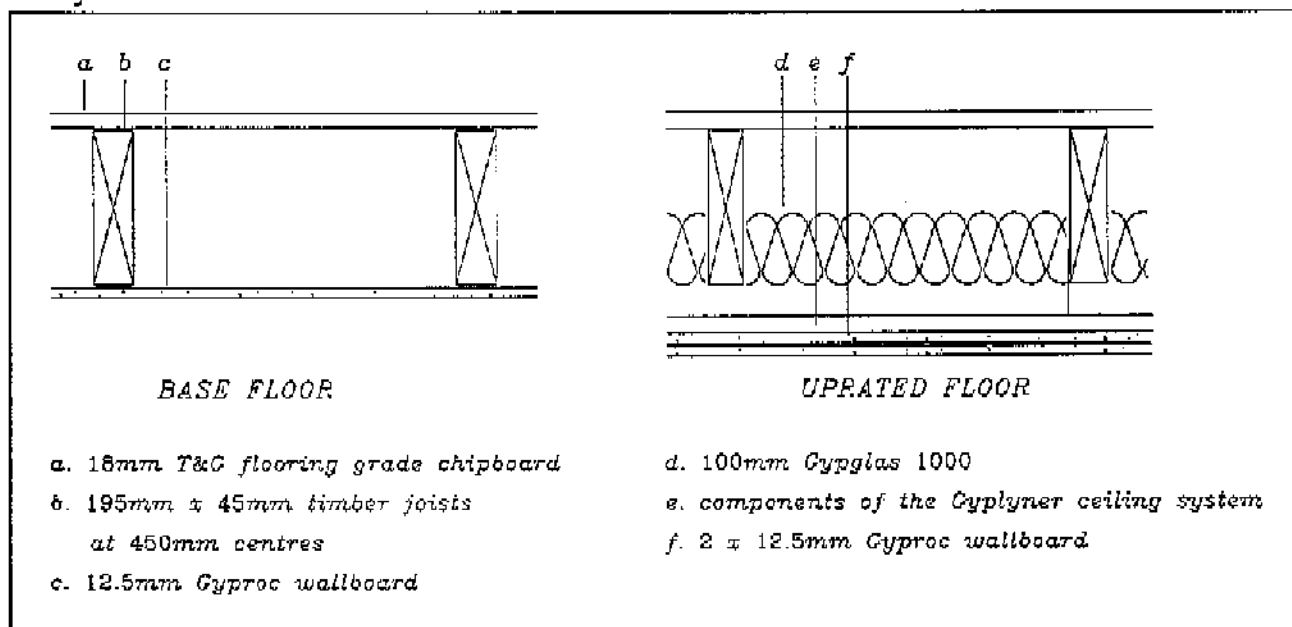
Tests carried out by: RC Meer D Patterson

Equipment: Norwegian Electronics Sound Insulation Measuring System Type 830 with Norwegian Electronics Rotating Microphone Booms with Bruel and Kjaer Type 4166/2619 microphones. Bruel and Kjaer tapping machine.

Test Procedures: Test carried out to BS 2750:Part 3:1980 (airborne) and BS 2750:Part 6:1980 (impact). Rated in accordance with BS 5821:1984. Rotating microphone booms used to sample the sound pressure levels in each room - Six reverberation time measurements made whilst the booms rotated - The sound reduction index is measured in both directions and the mean result reported. For impact the tapping machine is placed in four positions in the upper room and the sound pressure levels measured in the lower room.

Base Floor: 200mm x 50mm timber joists at 450mm centres with a walking surface of 18mm Flooring grade Chipboard (13.5 kg/m²). Ceiling of 12.5mm Gyproc wallboard (10.03 kg/m²).

Treatment: The existing ceiling removed. The components of the Gyproc Gyplyner system were fixed 60mm below the timber joists. The Gyplyner metal frame was lined with a double layer of 12.5mm Gyproc wallboard (10.27 kg/m²). 100mm Gypglas 1000 (1.09 kg/m²) placed in cavity.



Results:	Base	Airborne Rw = 38 dB	Impact Lnw = 79 dB
	Upated	Airborne Rw = 54 dB	Impact Lnw = 65 dB
		IMPROVEMENT = 16 dB	IMPROVEMENT = 14 dB

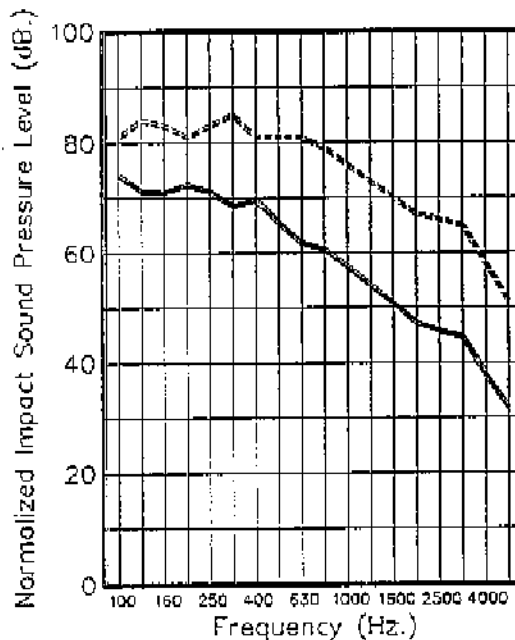
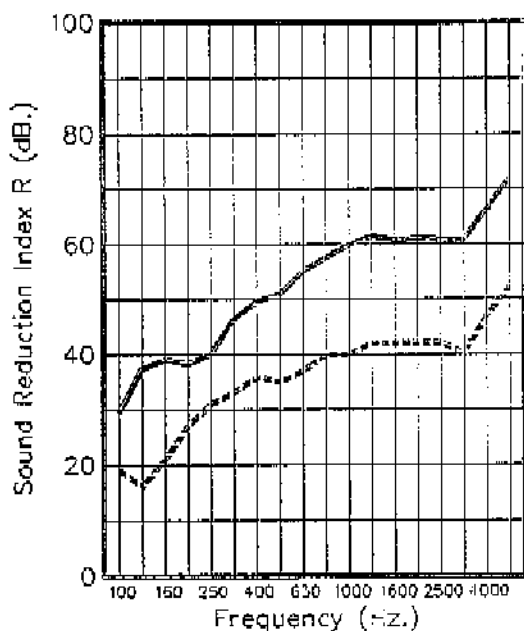
BRITISH GYPSUM'S SOLUTIONS

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AIRBORNE

IMPACT



————— **UPRATED FLOOR**
 - - - - - **BASE FLOOR**

1/3 Octave Band Centre Freq. Hz	Base Floor		Uprated Floor	
	Airborne R dB.	Impact Ln dB.	Airborne R dB.	Impact Ln dB.
100	19	81	29	74
125	16	84	37	71
160	21	83	39	71
200	27	81	36	72
250	31	83	40	71
315	33	85	47	69
400	36	81	50	70
500	35	81	51	65
630	37	81	55	62
800	40	79	58	61
1000	40	76	60	57
1250	42	73	62	54
1600	42	70	61	51
2000	42	67	61	47
2500	42	66	61	46
3150	40	65	61	45
4000	47	58	67	38
5000	52	51	72	32