

Needle Acoustics Company
Needle



Acoustic Panel Systems

**NENDLE ACOUSTIC PANELS AND ACOUSTIC ABSORPTION PANELS
FOR ENCLOSURE AND NOISE BARRIER SYSTEMS**

APPLICATIONS

Generator Set Housing
Pump Set Housing
Control Rooms
Boiler Rooms
Plant Rooms

Fan Enclosures
Compressor Enclosures
Chiller Enclosures
Plant Enclosures

These panel systems enable enclosures of any size and configuration to be constructed.

The unique Nacoseal™ panel jointing system provides structural integrity between panels which enables the completed structure to withstand wind loads of up to 150 Km/h.

With the load bearing characteristics of the modular panel systems roof spans of up to 4500mm are possible.

Larger spans are accommodated by incorporating support steelwork.

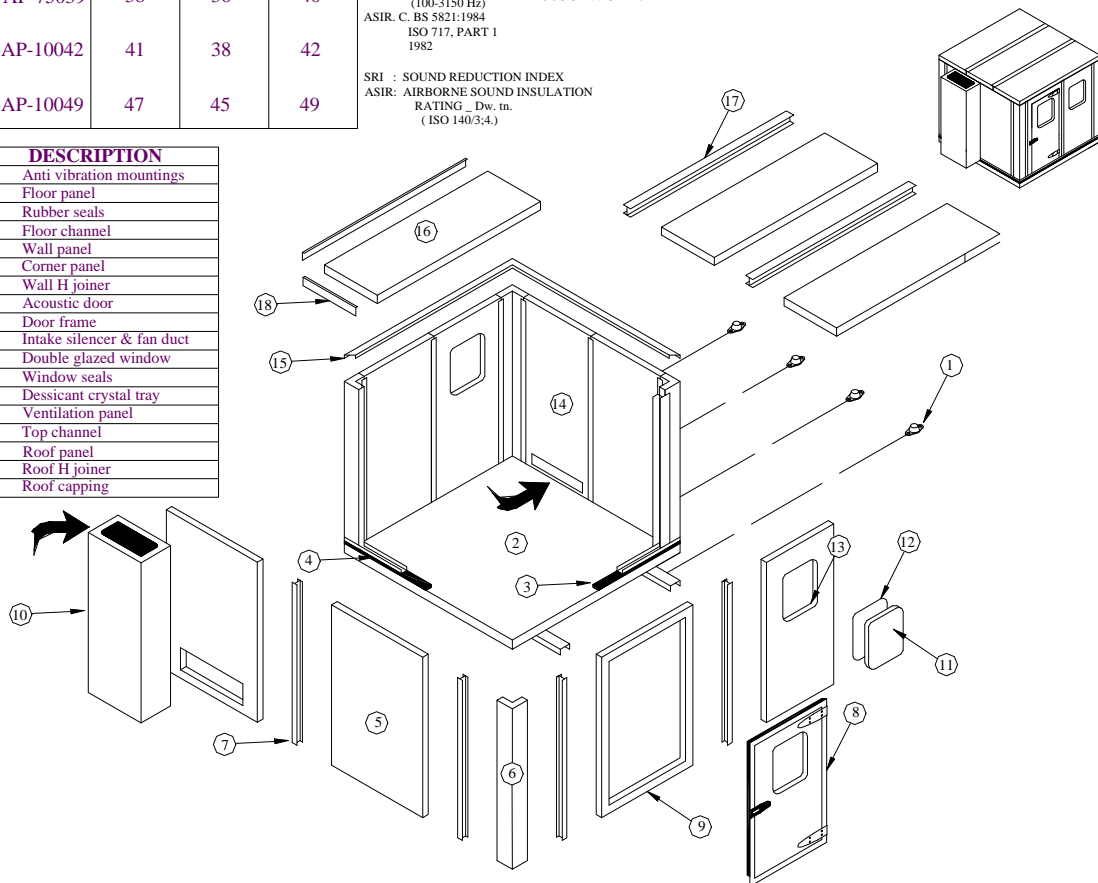
Nendle acoustic panel systems are available to the following acoustic specifications.

Model	SRI. A	SRI. B	ASIR. C
NAC-AP-75039	38	36	40
NAC-AP-10042	41	38	42
NAC-AP-10049	47	45	49

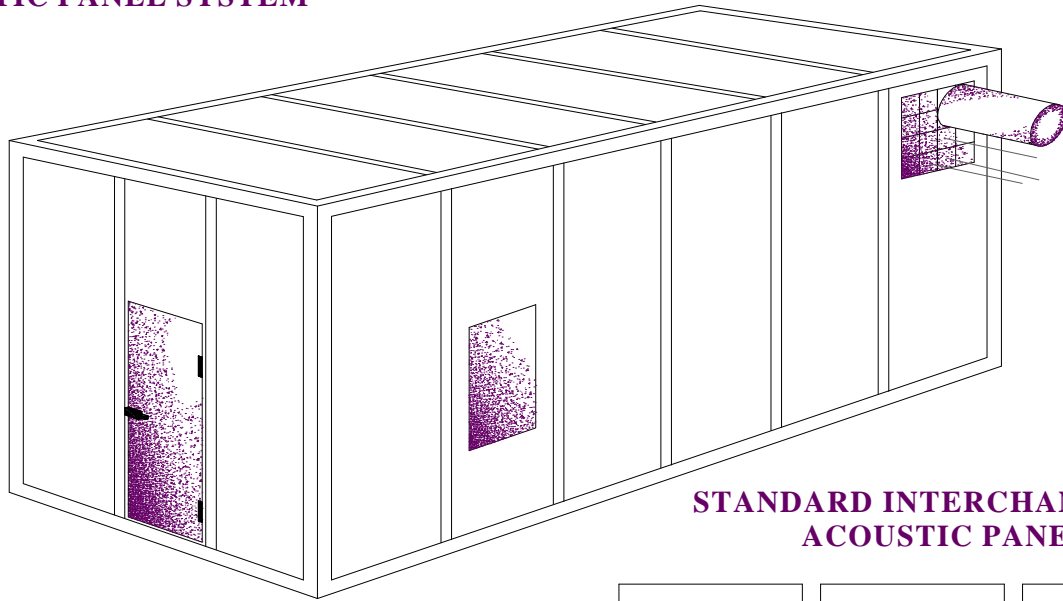
SRI. A. BS 2750:1980
ISO 140, PART 3
ASTM E90-70
(100-10,000 Hz)
SRI. B. BS 2750:1980
ISO 140, PART 3
ASTM E90-70
(100-3150 Hz)
ASIR. C. BS 5821:1984
ISO 717, PART 1
1982

SRI : SOUND REDUCTION INDEX
ASIR: AIRBORNE SOUND INSULATION
RATING - Dw, in.
(ISO 140/3,4.)

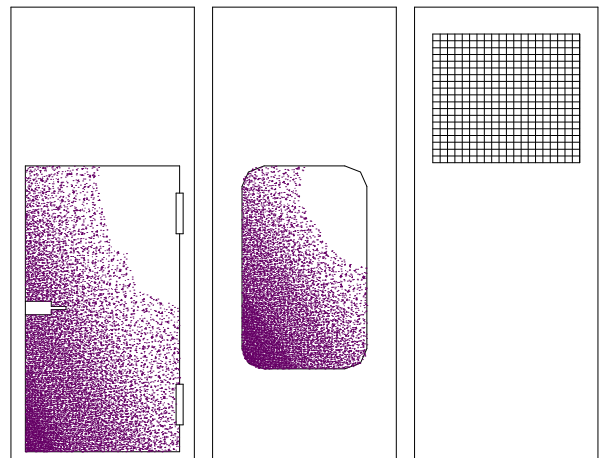
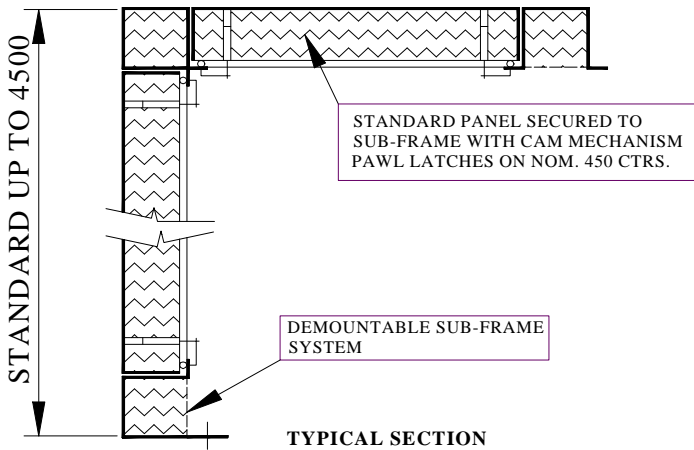
	DESCRIPTION
1	Anti vibration mountings
2	Floor panel
3	Rubber seals
4	Floor channel
5	Wall panel
6	Corner panel
7	Wall H joiner
8	Acoustic door
9	Door frame
10	Intake silencer & fan duct
11	Double glazed window
12	Window seals
13	Dessicant crystal tray
14	Ventilation panel
15	Top channel
16	Roof panel
17	Roof H joiner
18	Roof capping



**TOTAL FLEXIBILITY
ACOUSTIC PANEL SYSTEM**



**STANDARD INTERCHANGEABLE
ACOUSTIC PANELS**



**SINGLE
OR
DOUBLE
LEAF
DOOR**

**WINDOW
PANEL**

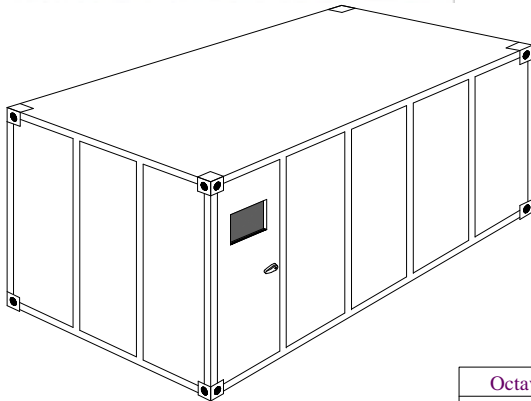
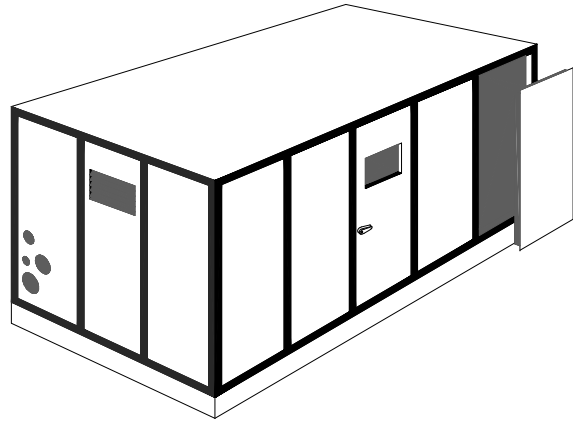
**SERVICE
PENETRATION
PANEL**

ACOUSTIC PANEL OPTIONS:
NAC-AP-75039
NAC-AP-10042
NAC-AP-10049

FINISHES AND SUBSTRATES:
GALVANISED SHEET STEEL
POLYESTER POWDER PAINT
COLORCOAT
ALUMINIUM
STAINLESS STEEL

APPLICATIONS

Nendle enclosure systems can be supplied fully assembled as 'drop over' enclosures or in modular format to be assembled on site.



Nendle enclosures can also be constructed to conform to ISO specifications to house generator plants, UPS systems and telecommunication equipment and general mobile equipment applications.

TECHNICAL SPECIFICATIONS

Octave Bands	Hz.	63	125	250	500	1K	2K	4K	8K
NAC-AP-75039	dB	21	24	34	39	41	39	44	43
	∞	0.46	0.59	0.9	0.96	0.97	0.97	0.95	0.88
NAC-AP-10042	dB	19	24	33	40	42	48	55	54
	∞	0.67	0.88	0.92	0.97	0.98	0.98	0.96	0.89
NAC-AP-10049	dB	25	30	39	46	50	54	56	52
	∞	0.68	0.89	0.91	0.97	0.96	0.97	0.96	0.89

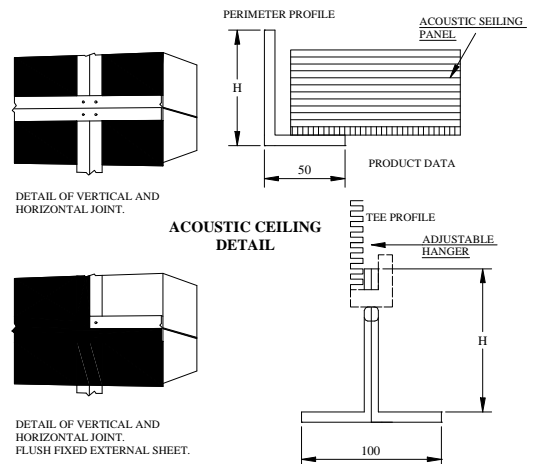
1/3rd Octave Band	Hz.	50	63	80	100	125	160	200	250	315	400	500	630	800	1K	1.25K	1.6K	2K	2.5K	3.15K	4K	5K	6.3K	8K	10K
NAC-AP-75039	dB	20	25	17	25	20	27	34	30	38	38	40	40	41	42	40	39	38	40	41	44	41	49	40	39
NAC-AP-10042	dB	18	23	16	24	22	26	30	30	39	40	39	42	40	43	44	46	48	51	53	55	56	57	55	49
NAC-AP-10049	dB	24	26	24	28	29	32	36	38	42	44	46	47	48	52	50	52	54	56	57	56	54	54	50	52

**NENDLE™ ACOUSTIC ABSORPTION
PANEL SYSTEMS**

Nendle acoustic absorption panel systems are applied where an existing structure can be utilised, so that the reverberant sound field can be effectively reduced.

Nendle acoustic absorption panels are also effective in controlling sound reverberation times in plantrooms, offices, halls, sound studios and factories.

The Nendle acoustic absorption systems can be supplied in modular panel format or assembled on site.



DEMOUNTABLE PANEL SYSTEM

