

# CONVOLUTED ABSORBER

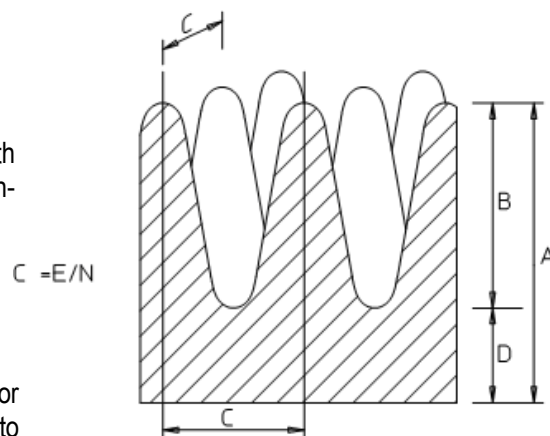
## HYFRAL APC

### PRESENTATION

HYFRAL APC is a range of absorbers with convoluted shape, consisting of blocks of carbon-impregnated polyurethane foam.

### FIELD OF APPLICATION

HYFRAL APC absorbers are used for equipping anechoic or semi-anechoic chambers. This cladding makes it possible to obtain quiet zone in very wide frequency bands.



Type	A Tot. height (mm)	B Convol. height (mm)	C Convol. width (mm)	D Base height (mm)	E ±T Base length (mm)	N Number Convol./side	Weight (kg)
APC 8	80	55	45	25	610 ±3	13.56	1.3
APC 10	100	70	45	30	610 ±3	13.56	1.5
APC 15	150	110	45	40	610 ±3	13.56	2.2

### METHOD OF USE

HYFRAL APC absorbers can be fixed to all flat surfaces by means of HYFRAL 135 glue to be applied with a brush or a pneumatic spray gun to both faces to be glued.

### SPECIALE CHARACTERISTIC

The HYFRAL APC absorbers provide very good impedance matching in centimetre and millimetre wavelengths and with high angles of incidence. This characteristic makes them very suitable for use in high frequency anechoic chambers.

MINIMUM REFLECTIVITY OF HYFRAL APC in dB								
For incidence angles close to the normal								
Type	Height (mm)	1 GHz	2 GHz	4 GHz	8 GHz	12 GHz	18 GHz	26 GHz
APC 8	80	-17	-22	-27	-33	-36	-42	-36
APC 10	100	-19	-23	-30	-34	-39	-45	-38
APC 15	150	-27	-34	-39	-40	-42	-48	-40

### MAIN CHARACTERISTICS

**Matrix:** polyurethane foam with 90% open cells.

**Impregnating agents:** carbon, binder, fire retardant.

**Colours:** black, white, blue, green, red (other colours by request).

**Paint:** plastic coated for class 100 000 clean rooms or for external.

**Maximum service temperatures:** - 70° C et 160° C.

**Power handling:** 0.2 W/cm<sup>2</sup> max CW.

**Fire resistance:** NRL 8093 (Test 1, 2, 3), ISO 11925-2, DIN 4102 (class B2).

These data are the result of tests performed in our laboratory. They are considered to be the best of our knowledge. The use of the material and the specification of the performances are made under the whole responsibility of users who should ensure themselves that the material is suitable for their purposes.