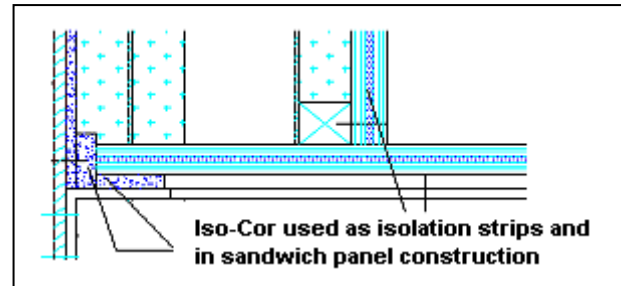


***Iso-Cor* - Cork / Elastomer**



Iso-Cor is a series of cork and cork/elastomer composite sheets having excellent combined acoustic barrier, isolation, damping and absorptive properties. Used in a variety of applications such as a sandwich core in bulkhead and sole panels or decorative finished surface layer.

Iso-Cor is easily laminated within a composite core structure to provide a lightweight and structurally sound acoustic barrier to standard foam core construction.

Iso-Cor is available in a wide variety of densities and elastomeric properties, each exhibiting a specific isolation and acoustical profile. ***Iso-Cor*** is supplied in either sheets or strips of various thicknesses. Typical offerings are 1250 x 2500 sheets of 2, 3, 6,8,10 mm thickness.

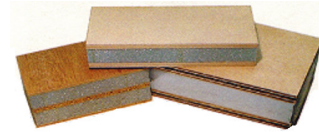
Iso-Cor -01 is specifically recommended as a damped isolation strip to eliminate transfer of structure borne noise to the interior accommodations. ***Iso-Cor -01*** is supplied in 10mm x 3' strips.

Type	Density	Color	Shore-A	Elongation	Compressibility
IsoCor-01	450 kg/m3	Black	15-25	>30%	50-60%
IsoCor-15	650 kg/m3	Brown	50-65	> 15%	35-50%
IsoCor-29	200 kg/m3	Lt.Brown	40-60	> 15%	20-35%
IsoCor-17	950 kg/m3	Black	65-75	> 100%	20-30%

Iso-Cor is easily cut with a Stanley knife or band saw. Install using Urethane adhesives. Resistant to water, moisture, oil, fuel and diluted acids. Medium sensitivity to high humidity Do not expose to direct sunlight. Service temperature -10/+100 C. Storage temperature 15- 20 °C

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Iso-Cor - Cork / Elastomer

Core Material	Panel Composition	Thickness (mm)	Weight (Kg/m ²)	Rw (db)	Thrmal Cndctvty K(W/m ² K)
Plywood	Plywood – (12mm Okoume)	12	6.75	15	16.5
IsoCor-15	4mm Okoume + 4mm IsoCor 15 + 4mm Okoume	12	7.00	30	9.2
IsoCor-17	4mm Okoume + 4mm IsoCor 17 + 4mm Okoume	12	9.50	31	13.4
IsoCor-29	4mm Okoume + 4mm IsoCor 29 + 4mm Okoume	12	5.30	29	15.8

Measurements (dB)				
F(Hz)	Plywood	IsoCor 15	IsoCor 17	IsoCor 29
100	11	21	18	20
125	13	15	17	19
160	9	19	22	20
200	15	20	22	24
250	15	23	24	23
315	16	25	25	25
400	17	26	26	25
500	18	29	26	28
630	18	29	28	28
800	19	30	30	31
1000	19	31	30	31
1250	18	32	33	32
1600	18	32	34	32
2000	16	31	34	31
2500	16	29	33	28
3150	19	29	31	29
4000	23	32	31	31
5000	24	34	33	34

Airborne noise transmission loss [dB]

f [Hz]

— Plywood
 — IsoCor 29
 — IsoCor 15
 — IsoCor 17

Property	Test Method	IsoCor 01	IsoCor 15	IsoCor 17	IsoCor 29
Static Load Range MPa		0.02 – 0.15		0.5 -1.0	
Max Load MPa		0.25	2.0	2.0	
Max Occasional Load MPa		1.50		8.0	
Color		Black	Brown	Black	Lt. Brown
Material		Rubber / Cork	Rubber/Cork	Rubber/Cork	Cork
Thickness		10,25,50	2,3,4,6,8,10	2,3,4,6,8,10	2,3,4,6,8,10
Special Features		-	-	-	-
Density kg/m ²	ASTM F104	400-500	550-700	900-1020	200
Temperature Range °C	Constant	-10/ 100	-10/ 100	-10/ 100	-10/ 100
Shore Hardness A	ASTM D2240	15 -25	50-65	65-75	40-60
Elongation at break	ASTM F152	>100%	>15%	> 86%	> 15%
Tensile Strength MPa	ASTM F152	>0.24	> 0.7	1.8	>0.6
Compression set 50% / 23°C / 70h	DIN 53572	< 20%	< 15%	< 8%	
Compressibility	ASTM F36	45-60% @ 0.7 MPa	35-50% @2.8 MPa	10-20% @2.8 MPa	20-35% @ 0.7 MPa
Recovery	ASTM F36	>85% @ 0.7 MPa	70-80% @ 2.8 MPa	>80% @ 2.8 MPa	>75%

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