

**IMPACT SOUND ABSORBENT PLYWOOD COMPOSITE PANELS**



**VSP HL PANEL**



**VSP CR PANEL**



**VSP HPI PANEL**

PRODUCT NAME	PANEL THICKNESS	BARRIER MATERIAL	BARRIER MATERIAL DENSITY	PANEL WEIGHT ( KG / M2)	NOISE REDUCTION RW CURVE
					@ 1/3 125 Hz
<b>VSP HPI 21 : VIZYON HIGH PERFORMANCE PANEL HPI AIRBORNE ( 8-5-8 ) 2200 X 1250</b>	<b>21 MM.</b>	<b>HIGH DENSITY POLYMER BASED SOUND INSULATION</b>	<b>2000 Kg./m3</b>	<b>22.20</b>	<b>24.0</b>
<b>VSP HPI 17 : VIZYON HIGH PERFORMANCE PANEL HPI AIRBORNE ( 6-5-6 ) 2200 X 1250</b>	<b>17 MM.</b>	<b>HIGH DENSITY POLYMER BASED SOUND INSULATION</b>	<b>2000 Kg./m3</b>	<b>19.40</b>	<b>23.2</b>
<b>VSP HPI 11 : VIZYON HIGH PERFORMANCE PANEL HPI AIRBORNE ( 4-3-4 ) 2200 X 1250</b>	<b>11 MM.</b>	<b>HIGH DENSITY POLYMER BASED SOUND INSULATION</b>	<b>2000 Kg./m3</b>	<b>12.60</b>	<b>16.4</b>
<b>VSP HL 22 : VIZYON SOUND PANEL HL ( 8-6-8 ) 2200 X 1250</b>	<b>22 MM.</b>	<b>MASS LOADED HEAVY LAYER</b>	<b>1778 Kg./m3</b>	<b>22.87</b>	<b>19.3</b>
<b>VSP HL 18 : VIZYON SOUND PANEL HL ( 6-6-6 ) 2200 X 1250</b>	<b>18 MM.</b>	<b>MASS LOADED HEAVY LAYER</b>	<b>1778 Kg./m3</b>	<b>20.07</b>	<b>19.0</b>
<b>VSP HL 12 : VIZYON SOUND PANEL HL ( 4-4-4 ) 2200 X 1250</b>	<b>12 MM.</b>	<b>MASS LOADED HEAVY LAYER</b>	<b>1778 Kg./m3</b>	<b>13.71</b>	<b>16.2</b>
<b>VSP CR 21 : VIZYON SOUND PANEL CR ( 8-5-8 ) 2200 X 1250</b>	<b>21 MM.</b>	<b>CORK RUBBER</b>	<b>650 Kg./m3</b>	<b>15.45</b>	<b>22.1</b>
<b>VSP CR 17 : VIZYON SOUND PANEL CR ( 6-5-6 ) 2200 X 1250</b>	<b>17 MM.</b>	<b>CORK RUBBER</b>	<b>650 Kg./m3</b>	<b>12.65</b>	<b>18.1</b>
<b>VSP CR 11 : VIZYON SOUND PANEL CR ( 4-3-4 ) 2200 X 1250</b>	<b>11 MM.</b>	<b>CORK RUBBER</b>	<b>650 Kg./m3</b>	<b>8.55</b>	<b>15.5</b>

## VSP CR :

**VSP CR, is an ideal product for Impact sound insulation. It can be used under parquet, laminate, carpet and ceramic tiles. Reduces unwanted noise - in your interior on the walls of your four walls and cabins It offers pleasant comfort.**

### Product Testing ( BARRIER MATERIAL)

Tensile strength	(ISO 1798) approx. 0.6 N/mm <sup>2</sup>
Elongation at break	(ISO 1798) approx. 20%
Density	650 - 750 kg/m <sup>3</sup>
Temperature range	-30° to 80°C
Heat transmission coefficient (DIN 52612)	0.06 m <sup>2</sup> K/W for 5 mm
Flammability rating	(EN 13501) Efl

Impact sound improvement: (ISO 140-8/ISO 717-2)
$\Delta L_w = 29\text{dB}$ with carpet
$\Delta L_w = 20\text{dB}$ under 8 mm laminate flooring
$\Delta L_w = 19\text{dB}$ under 13 mm parquetry
$\Delta L_w = 18\text{dB}$ under 16 mm solid parquetry
$\Delta L_w = 18\text{dB}$ under 9mm tiles

## VSP HL :

**VSP HL, is a high performance foil faced mass-loaded vinyl noise barrier offering superior acoustic transmission loss and upgraded fire resistance.**

### Product Testing ( BARRIER MATERIAL)

#### ACOUSTIC PERFORMANCE

Frequency (Hz)	4 MM	6MM
100	13.3	18.9
125	16.2	19.3
160	22.6	22.6
200	20.5	23.4
250	22.3	25.2
315	23.2	26.1
400	25.0	28.1
500	26.0	29.3
630	28.6	30.5
800	30.1	32.3
1000	32.7	34.9
1250	33.4	35.7
1600	34.1	36.4
2000	35.9	38.4
2500	37.6	40.4
3150	39.7	42.7
4000	42.1	45.7
5000	45.0	48.7
Rw	31	34
STC	31	34

## VSP HPI :

VSP HPI, is a composite panel made of high-density polymer-based and synthetic sound insulation material that offers good acoustic insulation in different environments.

Its difference from other panels is that it is an extraordinarily successful composite structure in damping not only the impact sound but also the airborne sounds.

It offers high acoustic comfort.

It has a multi-purpose use opportunity in maritime and industrial applications, from the sound insulation of the cabins to the disturbing noise of the engine rooms.

FREQUENCY (Hz)	R
125	23,7
250	24,2
500	29,2
1000	35,4
2000	43,4
4000	54,6
Weighted Sound Reduction Index A, $R_A$	33
Sound Reduction Index, $R_w$	34

## TECHNICAL SPECIFICATIONS

TECHNICAL DATA	Test method	VSP-HPI	Unit
Density	-	2.010	Kg/m3
Tensile strength	NT-67	>30	N/50mm
Elongation	NT-67	> 500	%
Cold flexibility	EN 1109	-20	°C
Tear Strength (nail)	EN 12310-1	153-235	N/50 mm
Fire class	UNE-EN 13501-1	Bs2d0	-
Vapour water resistant factor	UNE-EN 1931 met B	$\mu \geq 1806$	-
Water absorption (24h a 23°C)	ISO 62 met 1	0,003	%
Shore hardness A	NT 74	30 $\pm$ 10	-

Vizyon İnovatif Yalıtım Enerji Ve Mühendislik Ltd. Şti

[www.vizyonendustriyelyalitim.com](http://www.vizyonendustriyelyalitim.com) +90 216 446 00 04

