

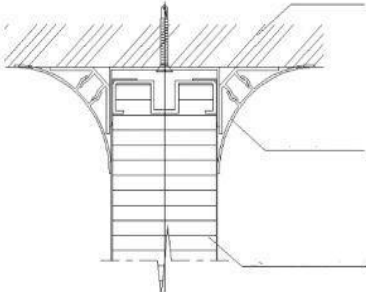

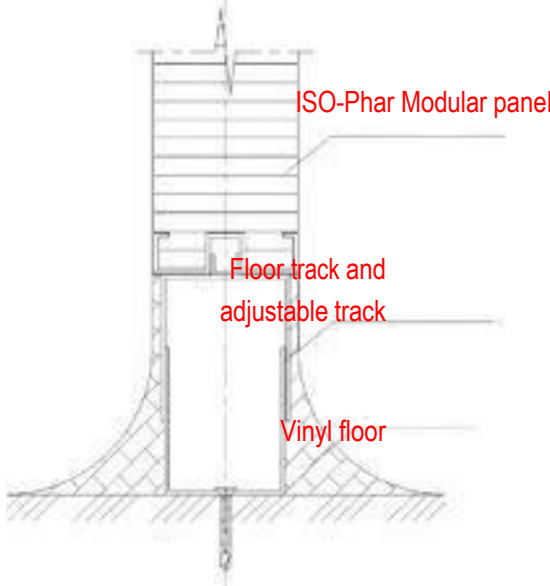



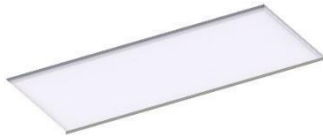
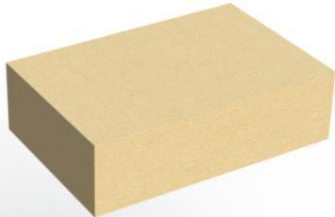

Name	ISO-PHAR Modular partition wall system
<p>Description</p> <p>Panel Core</p>	<p>ISO-PHAR Modular wall modules utilises a Rockwool Core (RWC). The modular system is engineered to provide sealed surfaces on all four connection sides. The Rockwool core provides excellent acoustic, thermal and fire performance. Being made from stone Rockwool insulation is fire resistant, water repellent and sound absorbent.</p> <p>Stone wool (or mineral wool) was discovered on the islands of Hawaii around the beginning of the nineteenth century and occurs as a natural by-product of volcanic activity.</p> <p>In its manufactured state, stone wool delivers unique benefits as an insulation solution. In part due to its non-directional fiber orientation, stone wool also exhibits unique benefits for acoustic, insulation, fire and longevity.</p> <p>Fire Resistant for occupant safety: ROCKWOOL stone wool can withstand temperatures greater than 1,000°C and does not contribute to the development and spread of fire or the release of toxic gases.</p> <p>Sound Absorbent for acoustic comfort: The non-directional structure of ROCKWOOL stone wool insulation is denser than traditional insulation products which helps to absorb acoustic waves and can reduce the intensity and propagation of noise. Stone wool also effectively reduces airflow and sound transmission, while providing higher airflow resistivity for improved sound attenuation.</p> <p>Water Repellent to keep you dry: ROCKWOOL stone wool is water repellent yet vapor permeable meaning that the long-term R-value is unaffected by moisture over time. This is due to the inherent drying potential of the product which is also resistant to rot, mould and mildew growth—contributing to a safer indoor environment.</p> <p>Dimensional stability means maintaining performance: Stone wool retains its characteristics over time which means reducing maintenance over the life of the home or building. Even with changes in temperature and/or humidity over long periods of time, there are minimal changes in the size or performance of our</p>

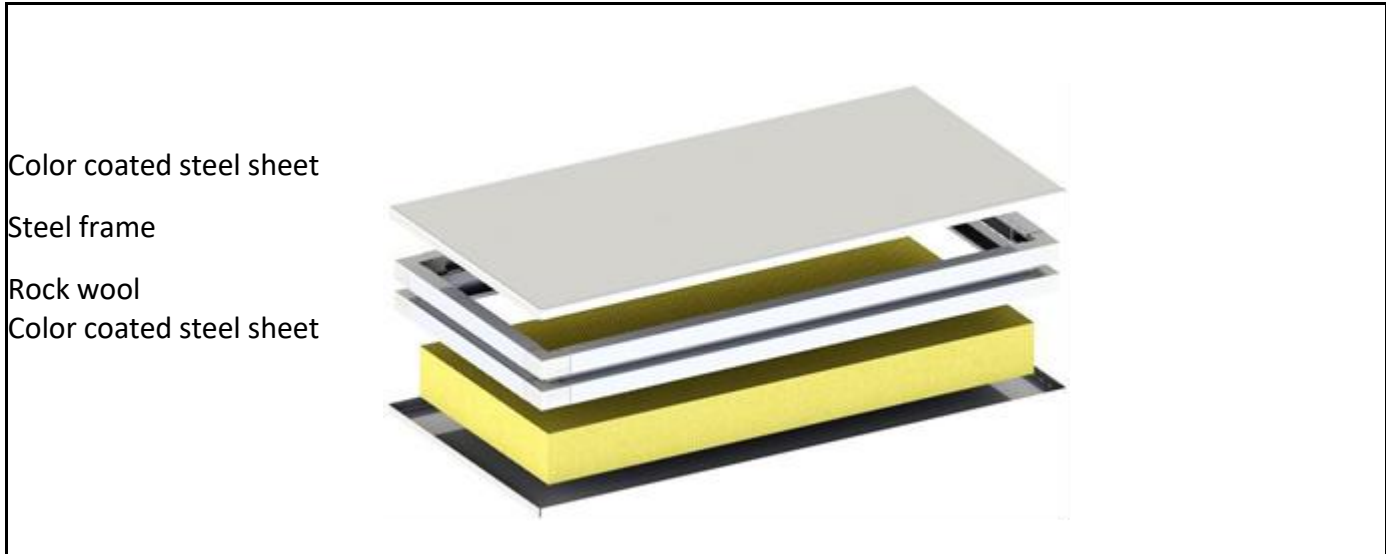
<p>Fire Performance</p>	<p>ISO-PHAR Modular Panels meet and exceed the requirements of the National Construction Code with NATA approved testing approvals. ISO-PHAR Modular Panel is a multi-layered product and therefore needs to satisfy the ISO AS9705 2003 Room test as stipulated in AS5637. The panel has achieved several Fire Resistance Levels (FRL).</p> <table border="1" data-bbox="475 589 1463 999"> <thead> <tr> <th data-bbox="475 589 893 618">CRITERIA</th> <th colspan="4" data-bbox="893 589 1463 618">PERFORMANCE</th> </tr> </thead> <tbody> <tr> <td data-bbox="475 618 893 698">AS 1530.3: 1993 (Test for Flammability of materials)</td> <td data-bbox="893 618 1034 698">Flame Spread</td> <td data-bbox="1034 618 1174 698">Ignitability</td> <td data-bbox="1174 618 1315 698">Heat evolved</td> <td data-bbox="1315 618 1463 698">Smoke Dev.</td> </tr> <tr> <td data-bbox="475 698 893 698"></td> <td data-bbox="893 698 1034 698">0</td> <td data-bbox="1034 698 1174 698">0</td> <td data-bbox="1174 698 1315 698">0</td> <td data-bbox="1315 698 1463 698">1</td> </tr> <tr> <td data-bbox="475 698 893 842">Compliance to C1.10 - AS5637.1 AS ISO 9705:2003</td> <td colspan="4" data-bbox="893 698 1463 842">Group 1, SMOGRA = 0.7 (m² / s² x 1000)</td> </tr> <tr> <td data-bbox="475 842 893 999">CP4 requires materials and assemblies to resist spread of fire and limit the generation of smoke and toxic gases during evacuation.</td> <td colspan="4" data-bbox="893 842 1463 999">Toxicity (Combustion gases) - Very Low (CO, CO₂)</td> </tr> </tbody> </table>	CRITERIA	PERFORMANCE				AS 1530.3: 1993 (Test for Flammability of materials)	Flame Spread	Ignitability	Heat evolved	Smoke Dev.		0	0	0	1	Compliance to C1.10 - AS5637.1 AS ISO 9705:2003	Group 1, SMOGRA = 0.7 (m ² / s ² x 1000)				CP4 requires materials and assemblies to resist spread of fire and limit the generation of smoke and toxic gases during evacuation.	Toxicity (Combustion gases) - Very Low (CO, CO ₂)			
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<p>Thermal Performance</p>	<p>ISO-PHAR Modular Wall Panels are insulated with Rockwool. The Thermal performance will match the R-value of the specified insulation in addition to those provided below.</p>																									
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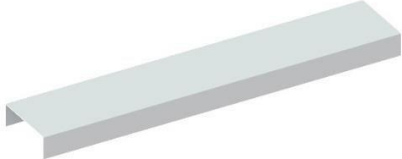

<p>Panel Coatings</p>	<p>To improve the performance of cleanroom panels in the applied environment, the panel can be specified with a specific coating to improve its lifecycle performance. Coatings available are:</p> <table border="1" data-bbox="475 450 1465 869"> <thead> <tr> <th>COATING</th> <th>APPLICATION</th> <th>Exceptions</th> </tr> </thead> <tbody> <tr> <td>Polyester (PE)</td> <td>Standard coating</td> <td>Not to be used with chlorinated agents refer to chemical resistance chart.</td> </tr> <tr> <td>Polyvinylidene fluoride (PVDF)</td> <td>Acids / bases</td> <td>Not to be used with chlorinated agents refer to chemical resistance chart.</td> </tr> <tr> <td>Polyvinyl chloride (PVC)</td> <td>Acids / bases</td> <td>PVC should not be used with esters, ketones, ethers and aromatic or chlorinated hydrocarbons</td> </tr> <tr> <td>Anti-microbiological</td> <td>Coating</td> <td>Refer to chemical resistance chart.</td> </tr> <tr> <td>Other</td> <td>Special</td> <td>Other coatings are available upon request.</td> </tr> </tbody> </table>	COATING	APPLICATION	Exceptions	Polyester (PE)	Standard coating	Not to be used with chlorinated agents refer to chemical resistance chart.	Polyvinylidene fluoride (PVDF)	Acids / bases	Not to be used with chlorinated agents refer to chemical resistance chart.	Polyvinyl chloride (PVC)	Acids / bases	PVC should not be used with esters, ketones, ethers and aromatic or chlorinated hydrocarbons	Anti-microbiological	Coating	Refer to chemical resistance chart.	Other	Special	Other coatings are available upon request.
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<p>Colour Range</p>	<p>A full choice of colours are available, subject to Minimum Order Quantities (MOQ) and warranties.</p> <p>Please contact your ISO-PHAR sales representative.</p>																		
<p>Haunches & Thermal Cuts</p>	<p>ISO-PHAR Modular wall panel is designed for use with Environmental Control Stores, however, is not design for Coldroom / Coolroom usage.</p>																		
<p>Standard steel specification</p> <p>0.5 / 0.6mm External face skin with 0.5 / 0.6mm internal face skin</p>	<p>External & Internal Skin materials – 0.5 mm Thick pre-painted RAL9002 (off white) steel with superior polyester finish coat (or the specified coating) of 25 microns and antibacterial protection. 0.6 mm panel is optional.</p> <p>Note: A range of substrates and colours without anti-bacterial protection are available, subject to application and MOQ.</p>																		
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Connection with all parts	Panel and panel connection	<ul style="list-style-type: none"> Panel and panel connected by Aluminum joint profiles The gap between panel and panel is 2 mm Installation flatness error is less than 1 mm Repeatable assembly and disassembly without affecting structural strength and appearance <p style="text-align: center;">rock wool panel</p>  <p style="text-align: center;">aluminum joint profiles</p>	
	Panel and top track connection	<ul style="list-style-type: none"> Panel could plug in the top track perfectly Panel direction fixed by the top track During the installation, panel direction is guided by the top track  <p style="text-align: right;">Ceiling Panel</p> <p style="text-align: right;">Iso-Phar cove</p> <p style="text-align: right;">rock wool panel</p>	

	<p>Panel and adjustable base connection</p>	<ul style="list-style-type: none"> • Using floor track and adjustable track to adjust the level and direction. • Panel and floor track connect by anchors. • Finished floor will be flush with the panel surface. 	
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Sheet description			
Overview	The wall panel used in the system is sandwich panel, double sided with color coated steel sheet. The core is rock wool and surrounded by a frame made of steel.		
Material composition	Front panel	<p>Standard options:</p> <ul style="list-style-type: none"> • RAL9002 off white and gray steel coil, standard -thickness is 0.5mm <p>Optional:</p> <ul style="list-style-type: none"> • Panel plate thickness: 0.5mm、0.6mm, • Panel plate material: normal steel coil, anti-static steel coil, PVDF steel coil, stainless steel coil. 	
	Core	<p>The core used in modular partition walls is Rockwool.</p> <p>Rock wool:</p> <ul style="list-style-type: none"> • Density: 100kg/m³ - 120kg/m³ 	
	Frame	<p>Standard options:</p> <ul style="list-style-type: none"> • Formed with 0.8mm thick galvanized steel, • Frame cross-material connection with ABS connector, or metal • Glue connection between the frame and the color steel sheet. 	



Spare parts description			
Accessories	Top track	<ul style="list-style-type: none"> Fixed under the ceiling panel surface 	
	Adjustable base	<ul style="list-style-type: none"> 1.2mm galvanized steel sheet Adjustable track aluminum profile. Floor track fixed on the floor Adjustable track connected the bottom of the panel Using adjustable track and floor track to adjust the floor level 	

	<p>Aluminium Joint Profiles</p>	<ul style="list-style-type: none"> • Using 6063 aluminum profile • Connect panel and panel • Make the gap between panel and panel even and neat • Standard colour 9002 or 9010. 	
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Disclaimer

Information provided here for reference and design guidance only. Designers and specifiers are encouraged to seek advice from a suitably qualified professional. All data is subject to change without notice.