SCHMETZER INDUSTRIES

ChameleonCore INT

ChameleonCore INT is a flexible silicone based foam with a high strength, pressure sensitive backing to adhere directly to the reverse side of the Gypsum Board. **ChameleonCore** INT will within its limitations, regulate the indoor temperature to a comfortable 23 degrees Celsius.

The Hero of **ChameleonCore** Product line is the Phase Changing centre. The silicone based foam is impregnated during the manufacturing process with a Phase Change material.

Phase Change Material (PCM) is a substance that is engineered to freeze and melt at a specified temperature, in our case 23 degrees Celsius. As the material changes its state from solid to liquid, the material must draw substantial amounts of heat energy from its surrounding environment. It's the reverse effect as the PCM changes its state from liquid to Solid. During this process, the PCM must Release substantial amounts of energy into the surrounding environment to return to the solid
state.

This transfer of energy, centralised at 23 degrees Celsius creates a large window of time that the surrounding environment is "passively" controlled to maintain this temperature. This eliminates the need for Heating/cooling in this time window. If the ambient indoor temperature does rise above 25 degrees or fall below 21 degrees, artificial heating or cooling is required to return the indoor environment back to the comfortable temperature zone.

This process can massively reduce heating and cooling costs and associated greenhouse gas emissions.

Characteristics	Test Method	Results	
		ChameleonCore INT 1.0	ChameleonCore INT 1.5
Product Code		CCINT10	CCINT15
Material Thickness		3mm	4.5mm
Material Weight		554GSM	804GSM
Package Size		1200mm x 40m (48m2)	
Roll Diameter		400mm	490mm
Package Weight		26.59kg	38.59kg
Energy Storage Capacity (Kj/m2)		12Kj/m2	18Kj/m2
Energy Storage Capacity (Wh/m2)		3.33Wh/m2	5.00Wh/m2
Flammability Index	AS 1530.2	≤ 5	
Dry Delamination	AS/NZS 4201.1	Pass	
Wet Delamination	AS/NZS 4201.2	Pass	
Water Barrier	AS/NZS 4201.4	High Resistance	