The Future of Sustainable High-performance Materials in Air Handling Units

Primo's Damper Blades are made from an advanced blend consisting of recycled polycarbonate with 20% glassfibers. This material offers a 100% recycled high-performance solution with good strength and stiffness.

Primo profiles like damper blades are well-suited for AHU products.

WHY CHOOSE PRIMO´S DAMPER BLADES?

SUSTAINABILITY AT ITS BEST

By using post-consumer and post-industrial waste, PRIMO's material combination significantly reduces environmental impact while maintaining high quality. The material meets the required strength and stiffness of traditional materials, including aluminium, in a number of dimensions, but at a much lower environmental cost.

MATERIAL ADVANTAGES

PRIMO's solution is engineered to support or even replace aluminum or steel in many applications. The glassfiber reinforced polycarbonate offers more than 200 times lower thermal conductivity which shows advantages in cool areas. Primo's damper blades are resistant to salt (seaside) and chloride in aerosols (common low concentrations e.g. in swimming pools). The material blend includes anti-microbial additives. The geometry allows the use of commercially available hardware.

LIGHTWEIGHT ADVANTAGE

With a density less than half that of aluminum, PRIMO's solution offers weight-saving benefits, making it ideal for industries where reducing weight is essential.

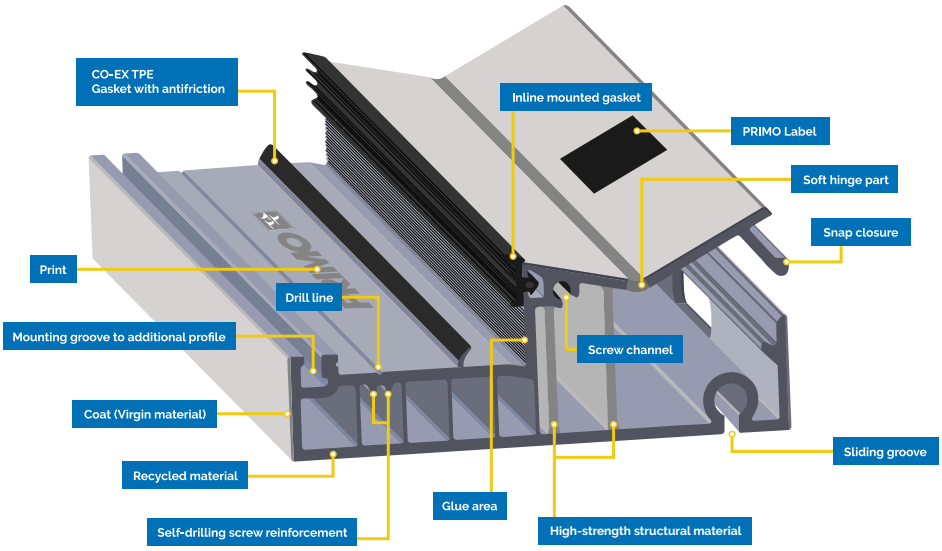
INLINE MACHINING

The damper blades can be extruded using in-line processes, unlike e.g. metal or pultruded profiles which requires multiple, separate processes (cutting, stamping, milling, and surface treatment). This streamlines production, cuts costs/hours for our customers, and reduces CO2 emissions associated with multiple manufacturing steps.

Test temperature @23°C when no other indications

PROPERTIES	EN/ISO TEST METHOD	SI UNIT	TYPICAL VALUE
Material	1043	Polymer	<1,27
Density	1183	g/cm_3	1,32
Flammability rating	UL94	@1,6 mm	V2
Tensile strength	527-1/2	MPa	~80
Charpy impact	ISO 179	kJ/m^2	~8
Elongation at break	527-2	%	~8
Vicat Softening Temperature	ISO 306 B (50N)	°C	142
Color	-	-	Anthrazite-black

EXTRUDED PLASTIC PROFILES COVER A WIDE RANGE OF FUNCTIONALITIES.



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