

# Building outdoor profiles

PVC compounds for exterior construction elements

## Reliability for harsh environment

PVC has been widely used for producing construction elements for decades, and it is acknowledged for its value in building closures such as doors, windows and shutters.

Window systems have significantly improved during the past decades. They allow more light inside homes and are more durable and better insulated. Lower energy consumption, larger apertures and cost improvement are also key parameters to meet the energy transition demands. PVC is a major component of window systems, and as such it is a major contributor to the performance enhancement. Whether rigid or plasticized, made for PVC or aluminum frames, ProVinyl by BENVIC is an asset for every window system application.

Shutter systems require similar performances. BENVIC provides fully adapted PVC for blades and mechanism housings, with increased resistance against mechanical shocks.

**Cladding** skin and core profiles



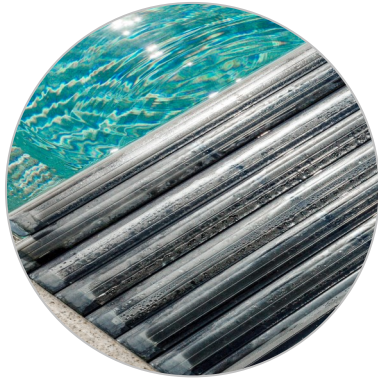
**Batten and roof** accessoires profiles

**Decking** blade profiles for durability and mechanical load resistance

**Fences** profiles and occultation profiles, light resistant, maintenance and corrosion free



**Swimming pool** shutter blades  
to match various aspects



**Waterstop seals** to protect  
construction elements from water  
or submersion

**Durability** Exterior building profiles are exposed to various stress factors linked to outdoor conditions: variation of temperature, solar exposure, effect of water (significant potential impact on window materials in terms of function or appearance), and so on. For this reason, these exterior profiles need to be resistant and durable.

With ProVinyl, BENVIC offers a set of solutions meeting the highest standards of durability. Depending on countries, materials are certified to demonstrate such performance.

BENVIC capitalises on years of experience regarding long-term material aging and how to compensate for it. This enables rugged materials to endure for decades of service and is a major advantage for any manufacturer.








**ProVinyl  
contribution to  
the  
performance**


**Aspects and colors** Whatever the basic material, appearance is the major contributor to the value of building exteriors or swimming pool covers. BENVIC provides a wide array of solutions with valuable properties, from color on demand up to surface brightness, transparency and texture, from optimized materials to decorative film deposition. Color resistance against UV aggression is also a key asset of our materials.

**Dimensional stability** Since window frames are exposed to high temperatures or direct sun, they need good thermal stability to avoid deformations through time. BENVIC grades are specifically designed to meet such requirements whether for PVC frames or for thermal rupture profiles.

**Integrated insulation for cladding.** Using PVC helps ensure that the latest and most efficient windows systems remain affordable for budget homes. Aside from high performance products, BENVIC also provides more basic compounds for cost-effective use.










## Key benefits

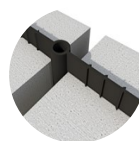
-  **UV resistance** color resistance against ageing
-  **Color on demand** existing color range
-  **Dimensional stability** against thermal stresses
-  **Brightness** different finishes from matt to gloss
-  **Shock resistance**
-  **Fire resistance**
-  **Hardness modulation** for seals

 **Weldability** for easy junction assembly




## Decking

Presentation	Country of origin	Certifications	Benefits	Main features or applications	Process
Pellets Dryblend	FR		   	High mechanical performance Embossing - Gloss finish	Extrusion
Pellets Dryblend	FR		 	Durability Coextrusion capable	Extrusion Co-extr.
Pellets Dryblend	FR	 NF132	 	Durability	Extrusion



## Bulding seals

Presentation	Country of origin	Certifications	Benefits	Main features or applications	Process
Pellets	UK			Conservatory parts Low migration to ABS and PC	Extrusion




















## Cladding & wall covering

	Process	Main features or applications	Benefits	Certifications	Country of origin	Presentation
<b>ER017</b>	Extrusion	General purpose Value grade			FR	Pellet
<b>ER207</b>	Co extr.	Thin wall extrusion High gloss finish			FR	Pellets
<b>ER214</b>	Extrusion Co extr.	Gloss finish Value grade			FR	Pellets
<b>ER352</b>	Co extr.	Thin wall extrusion Frost finish			FR	Pellets
<b>ER453 / ER455</b>	Extrusion	General purpose Soffit application			FR	Pellets
<b>ER753</b>	Extrusion	Value grade Soffit under roof			FR	Pellets
<b>ER449</b>	Extrusion	High mechanical performance Embossing / Gloss finish			FR	Premix
<b>ER459</b>	Extrusion	Under roof use			FR	Pellets
<b>ET455</b>	Extrusion	Dark color adapted			FR	Pellets
<b>ER759</b>	Extrusion	Under roof use Value grade				
<b>ET860</b>	Extrusion	Dark color adapted			FR	Pellets
<b>PEX003</b>	Extrusion	Expanded Core profile for insulation			FR	Dryblend
<b>PXT087</b>	Extrusion Co-extr	Expanded Thermoresistant			FR	Dryblend
<b>ER464</b>	Extrusion	Tropical environment			SP	Pellets

















## Bulding accessories profiles

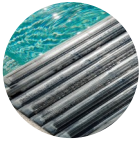
<i>Presentation</i>	<i>Country of origin</i>	<i>Certifications</i>	<i>Benefits</i>	<i>Main features or applications</i>	<i>Process</i>
Pellets	FR		 	Thin wall - gloss finish Fire resistance	Extrusion
Pellets	FR	UL94	  	General purpose	Extrusion
Pellets	PL		 	General purpose High gloss finish	Extrusion
Pellets	UK		  	Scaffolding support / barriers	Extrusion
Pellets	UK		  	General purpose Various uses	Extrusion
Pellets	UK		   	Window surround beam	Extrusion





















## Fences

<i>Presentation</i>	<i>Country of origin</i>	<i>Certifications</i>	<i>Benefits</i>	<i>Main features or applications</i>	<i>Process</i>
Pellets	FR	 NF132	  	High perceived quality Gloss finish	Extrusion
Pellets Dryblend	FR	 NF132	 	Durability	Extrusion
Pellets	FR	 NF132	 	Value grade	Extrusion
Pellets	FR		 	Concealment	Extrusion
Pellets	FR SP		 	Value grade	Extrusion





## Swimming pool shutter

	Process	Main features or applications	Benefits	Certifications	Country of origin	Presentation
<b>ER125</b>	Extrusion	Transparent Solar cover			FR	Pellets Dryblend
<b>ER161</b>	Extrusion	Opaque High gloss finish	 	NF132 NF P90-308	FR	Pellets Dryblend
<b>ER180</b>	Extrusion	Opaque Cost/finish optimized	 	NF132 NF P90-308	FR	Pellets Dryblend
<b>ER206</b>	Extrusion	Opaque Value grade	 	NF P90-308	FR	Pellets
<b>EH213</b>	Extrusion	Translucid Smoked	 	NF P90-308	FR	Pellets
<b>EH610</b>	Extrusion	Transparent	 		FR	Pellets
<b>EH612</b>	Extrusion	Translucid Blue	 	NF P90-308	FR IT	Pellets
<b>EH650</b>	Extrusion	Transparent			FR	Pellets
<b>EH611</b>	Extrusion	Translucid Transparent	  		IT	Pellets
<b>ST/20CZ-0</b>	Extrusion	High impact resistance	 		PL	Pellets

### Support

As leading specialist of PVC compounding, BENVIC supports its customers during the whole production process, from design to manufacturing to after-sales services. For any support, please contact your closest BENVIC sales representative or consult our website at [benvic.com](http://benvic.com).

Technical data sheets, processing recommendations and other supporting data are available upon demand. The information given here above is general commercial information, cannot be considered as a specification and can change without prior notice. Benvic also supports customers through continuous adaptation of its products: please contact your nearest sales representative for technical support.



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