

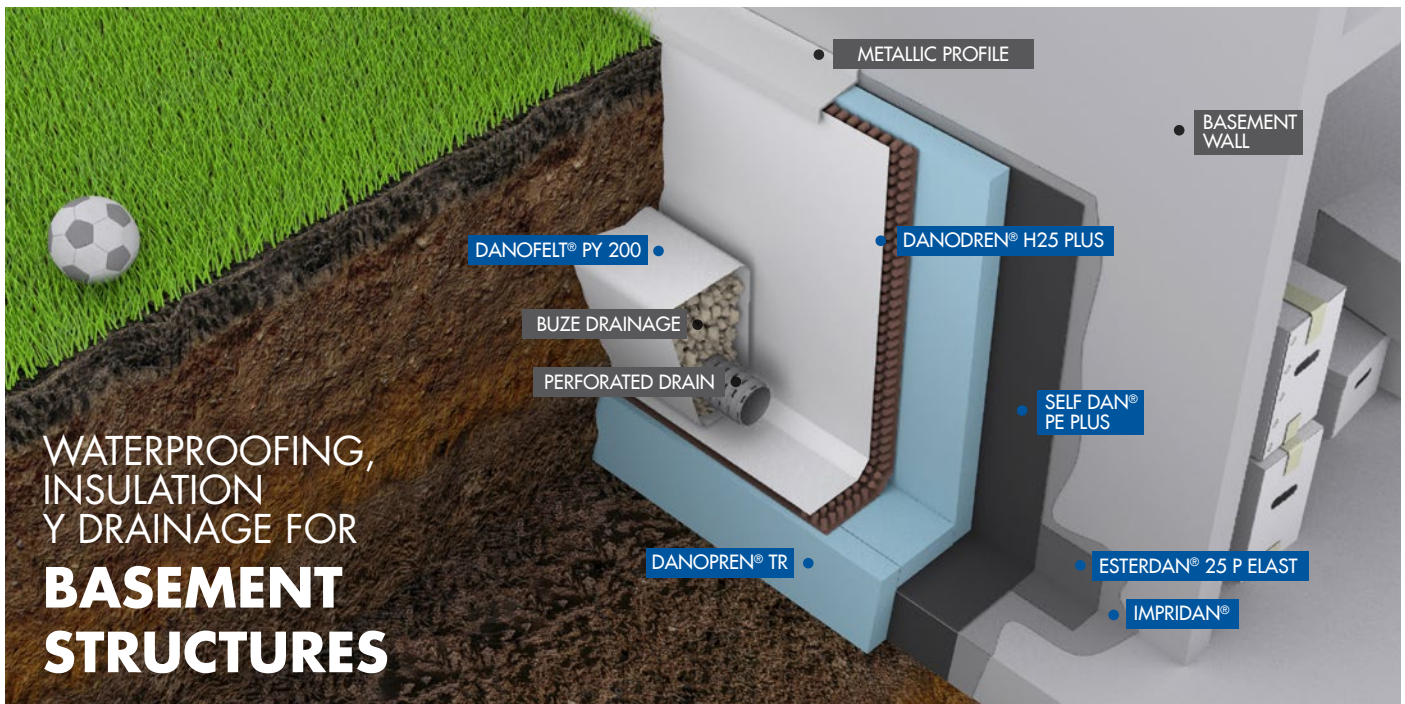
## **BASEMENT STRUCTURES**

COMPLETE SOLUTION FOR IMPROVING  
THE LIVEABILITY OF BASEMENTS



**DANOSA BASEMENT STRUCTURE SYSTEMS** are complete waterproofing, insulation, protection and drainage systems for buried structures in contact with natural terrain.

The system assures the building's proper protection against water, as well as thermally insulating and facilitating proper drainage.



## WATERPROOFING, INSULATION AND DRAINAGE FOR BASEMENT STRUCTURES

### ADVANTAGES:

- Complete waterproofing, thermal insulation and drainage system.
- Waterproofing system:
  - Highly durable.
  - Resistente a la penetración de raíces.
  - Waterproofing system resistant to root penetration.
  - Puncture-resistant.
  - Resistant to gardening activities.
  - Easy to install (self-adhesive option).
  - Highly compression-resistant drainage system.
- Thermal insulation with zero water absorption.
- Systems technically evaluated by independent European organisations: French Centre Scientifique et Technique du Bâtiment (CSTB), Spanish Instituto Eduardo Torroja (IETcc).

### APPLICATIONS:

- Logistical buildings.
- Industrial buildings.
- Public buildings such as shopping centres.
- Public or private residential buildings.
- Health facilities such as hospitals and clinics.
- Educational facilities such as schools, day care centres and universities.
- Administrative and corporate buildings.

Function	Product	Description	Property	Value
Waterproofing	Option 1: <b>POLYDAN® 50/GP ELAST VERT JARDIN</b>	High-performance, highly elastic SBS-modified asphalt sheet with polyester fabric resistant to root penetration.	Resistance to root penetration	Passes (EN 13948)
Waterproofing	Option 2: <b>SELF DAN® PE PLUS</b>	Self-adhesive SBS-modified bitumen sheet finished in a biaxially oriented film (HDPE).	Static puncturing	(ASTM E154) 235N
			Elongation	350%
Thermal insulation	<b>DANOPREN® TR</b>	Rigid, ecological, extruded polystyrene (XPS) panels free of hydrochlorofluorocarbons (HCFCs).	Thermal conductivity	$\lambda \geq 0,032 \text{ W/m}\cdot\text{K}$
Drainage and filtering	<b>DANODREN® H25 PLUS</b>	Nodular high-density polyethylene (HDPE) and incorporated polypropylene geotextile.	Drainage	5 l/m·s

\*For test conditions, visit our website at [www.danosa.com](http://www.danosa.com).