



Systems for waterproofing,  
de-humidification,  
impregnation



Certified Quality System since **FEBRUARY 1993**

*From Project to Jobsite*

## Profiles in PVC – WSB/WSBE

### PROFILES FOR HYDRAULIC SEALING OF DILATATION AND STRUCTURAL JOINTS

**Description** The WSB/WSBE profiles are pre-formed PVC plates with a central bulb, round or square depending of the model that is used, and equipped with flaps and pedicles for anchoring into the concrete.

**Advantages and characteristic** It should be remarked that the structures in permanent or occasional contact with water or moisture must be designed and made with great care so that the expansion and shrinkage joints are waterproof. The use of the profiles WSB / WSBE and their high structural capacity ensures perfect hydraulic sealing ensuring the absorption of dynamic movements thanks to the presence of the central bulb. It is possible to weld the different elements to each other, directly on the jobsite, by heat welding.

**Fields of use** Structural and expansion joints of constructions in reinforced concrete below the water table and / or subject to hydrostatic pressure:

- Foundations in general
- Basements
- Tunnels
- Tanks
- Dams
- Reservoirs
- Pools
- Retaining walls
- Big infrastructural works

**Method of use** The profile WSB is positioned centrally in the joint, suitably anchoring the wings to the reinforcement with metal wire or suitable clips so as to ensure stability when casting, avoiding folds. One half is embedded in the 1 st stage of concreting. The remainder is incorporated in the subsequent closing or completion casting; jets must have a width equal to the width of the central bulb. For structural joints of slabs and perimeter walls where the profile is located at the outer edge, use the series WSBE, with a face incorporated in the reinforced concrete and the other on the bottom of the formwork.

**Remarks** It is recommended to vibrate with particular care in the concrete part immediately adjacent to the profiled element in order to obtain optimal compaction of the concrete, being careful not to move the profile with the vibrator from its position. It is possibly necessary depending on the geometry of the work to perform joints between the profiled elements (example: T, L, etc..). The welding, head to head must be prepared by clean and precise cutting of the edges that will join together. The welding must take place through the use of a hot knife (electrical) that welds the flaps creating the fusion and the coupling. It is important that the central bulbs are contiguous to each other.



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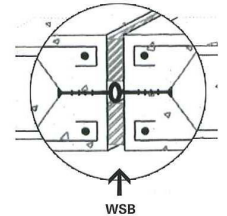
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**Packaging** Rolls of 25 linear meters.

**Technical characteristics (typical values)**



CODE	A (mm)	B (mm)	PACKAGING (m)
WSB 180	180 mm	2,5 mm	RT 25 m
WSB 200	200 mm	2,5 mm	RT 25 m
WSB 220	220 mm	3,0 mm	RT 25 m
WSB 250	250 mm	3,0 mm	RT 20 m
WSB 300	300 mm	3,5 mm	RT 20 m
WSB 320	320 mm	3,5 mm	RT 15 m
WSB 350	350 mm	4,0 mm	RT 15 m
WSB 360	360 mm	4,0 mm	RT 15 m
WSB 440	440 mm	4,2 mm	RT 12,5 m



CODE	A (mm)	B (mm)	PACKAGING (m)
WSBE 200	200 mm	17 mm	RT 20 m
WSBE 250	250 mm	18 mm	RT 15 m

Physical-mechanical data	Measuring unit	values	method
Hardness	Shore A 15''	70/75 ± 2	ISO 868
Density	g/cm <sup>3</sup>	1,4 ± 0,03	ISO1183
Load at break	N/mm <sup>2</sup>	>12	ISO527
Elongation at break	%	>340	ISO527
Stiffening temperature	°C	32 ± 4	ISO458/2
Thermal stability at 200 °C	Min.	80 ± 5	ISO 182/A
Flammability	Class	V0	UL94

Resistance to oil: normal in case of short term contact not suited for long term immersion.

**Safety indications** Read carefully the instructions on the packaging or eventually ask for the Material Safety Datasheet of the product.

The above data are based on our actual and most experienced practical and laboratory knowledge and the results are collected from application of the product in different situations. Tecnochem Italiana does not assume any responsibility regarding inadequate or negative performance as a result of improper use of the product or for defects deriving from factors or elements other than the quality of the product including improper storage. The technical characteristics and performance mentioned in this datasheet are updated periodically. The revision dates and number of revision of the datasheets are listed in the table below. Eventual variations are traceable on our website [www.tecnochem.it](http://www.tecnochem.it) where the most updated datasheets can be retrieved.

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