



KENAL PVC WS JOINT SEALING PROFILES



EMPOREX PVT. LTD.
AN ISO 9001 COMPANY

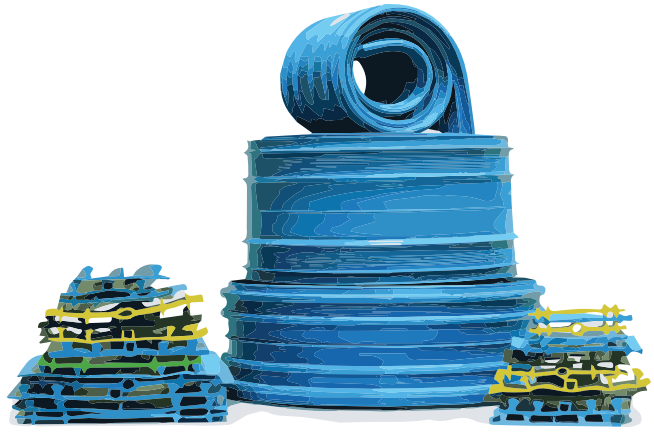
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PRODUCT DESCRIPTION

kenal **PVC WS** lead the way in high technology waterstops and comply with international standards.

Kenal **PVC WS** are extruded from specially compounded PVC and they are designed for use in water retaining and water excluding structures where a positive seal is required for poured in-situ concrete expansion, construction and contraction joints.



Kenal **PVC WS** are designed for use in many types of applications and structures, and are available in a number of different size profiles to suit a project's requirement.

Kenal **PVC WS** are available in rolls with separate intersections supplied to simplify and minimize on-site fabrication. The waterstop is heat weldable and allows for fast and easy on-site welding/joining.

The efficiency of any waterstop is very dependent on good workmanship, installation, and on full compaction of the surrounding concrete around the waterstop during concrete placement. Optimum performance will be achieved if the waterstop is installed by keeping these important factors in mind.

ADVANTAGES

- A full range of profiles and sizes to suit all types of construction requirements.
- Kenal PVC WS conform to, and exceed all major international standards.
- High quality compounded PVC for long term durability and integrity.
- Factory made intersections to simplify and minimize on-site fabrication.
- Good chemical resistance and suitable to use in contact with potable water.
- All profiles come with factory pre-punched reinforced eyelets for easy and secure wire tying to reinforcement.
- Ability to withstand high hydrostatic head pressures.

AREAS OF APPLICATION

Water retaining structures:

- Water tanks
- Water treatment plants
- Sewage treatment plants
- Swimming pools
- Dams and spillways
- Reservoirs
- Bund walls

Water excluding structures:

- Basements
- Underground car parks
- Tunnels
- Retaining walls
- Suspended slabs
- Below ground slabs
- Roof & podium slabs

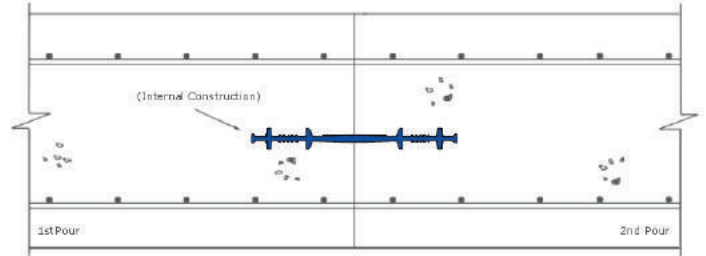
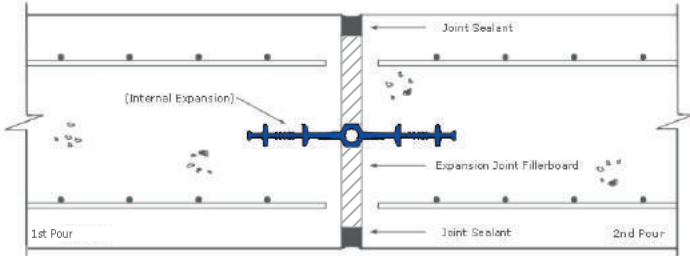
Note: The products design and performance, its intended use, installation and final confirmation and approval for use, must be provided by the project's Design Engineer and Project Manager.

TYPICAL APPLICATIONS

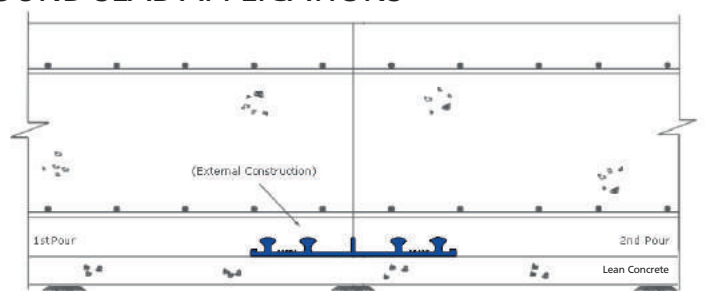
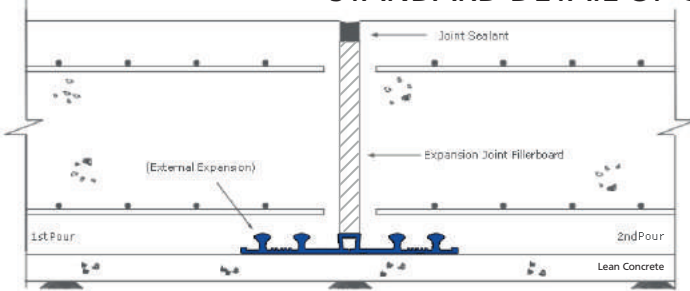
EXPANSION JOINT

CONSTRUCTION JOINT

STANDARD DETAIL OF WALL APPLICATIONS



STANDARD DETAIL OF GROUND SLAB APPLICATIONS



TECHNICAL FEATURES

COLOR

Blue

PACKAGING

150mm , 200mm = 15m roll.

250mm, 330mm = 12m roll.

ROLL WEIGHT

Dependent upon profile type.

STORAGE CONDITIONS & SHELF LIFE

3 years from the date of production if stored properly in original, unopened and undamaged sealed packaging, in dry conditions out of direct sunlight at temperatures between +10°C and +40°C , keep away from sharp edges to prevent damage.

MATERIAL TYPE

Polyvinyl Chloride (PVC)

WELDING TEMPERATURES

Approximately +200°C

SERVICE TEMPERATURE RANGE

-30°C to +70°C

PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	RESULT
Tensile Strength (N/mm ²)	BS 2782:320A, ISO 527	>14
Elongation At Break (%)	BS 2782:320A, ISO 527	>300
Water Absorption at 23°C (%)	ISO 62	0.06
Specific Gravity (g/cm ³)	BS 2782:620B, ISO 1183	1.35 ± 0.02
Stabilization	N/A	Lead free
Hardness, Shore A	BS 2782:365B, ISO 868	80 ± 2

All values given are subject to 5 -10% tolerance.

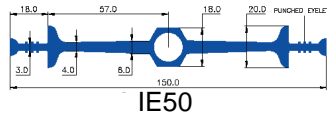
Note: Kenal in house Certificate of Analysis (COA) is conducted on every batch of raw material that is used in the production of Kenal PVC Waterstops. Independent laboratory test results are also available upon request.

PROFILE DRAWINGS

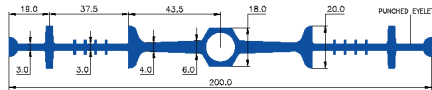
INTERNAL PROFILES

FOR EXPANSION JOINTS

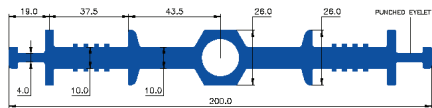
FOR CONSTRUCTION JOINTS



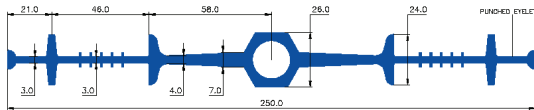
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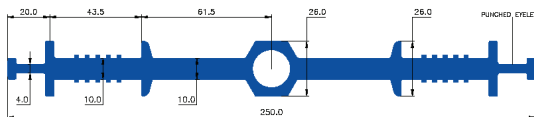
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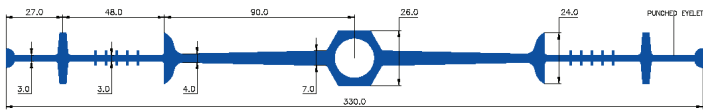
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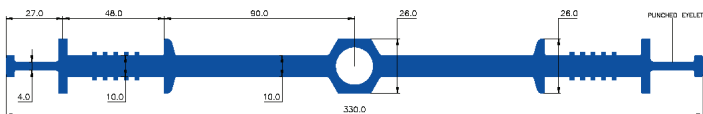
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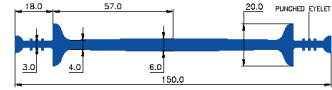
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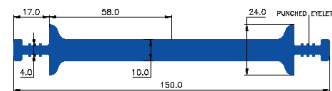
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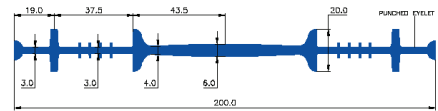
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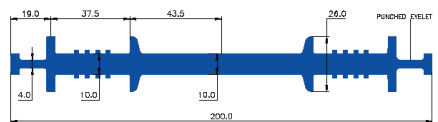
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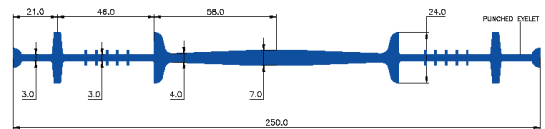
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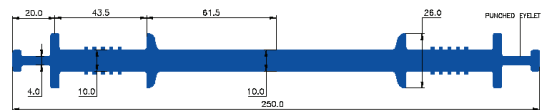
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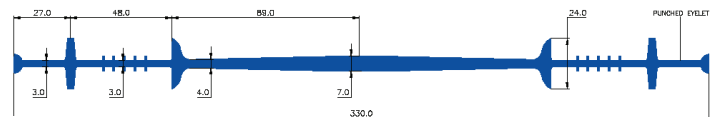
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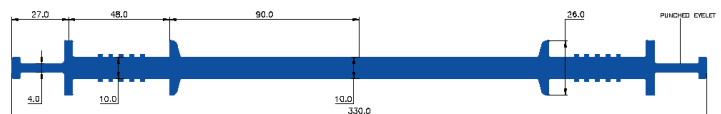
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IC 250 HD



IC 350



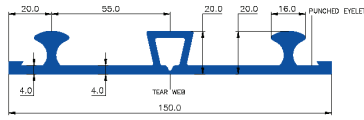
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PROFILE DRAWINGS

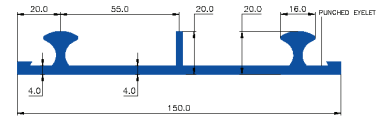
EXTERNAL PROFILES

FOR EXPANSION JOINTS

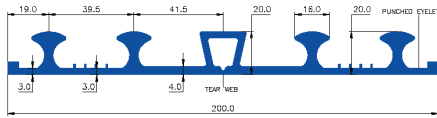
FOR CONSTRUCTION JOINTS



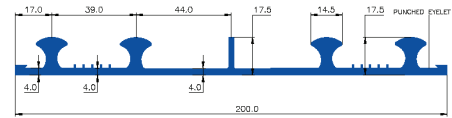
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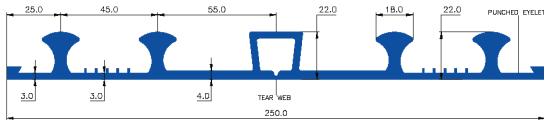
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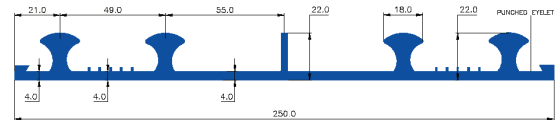
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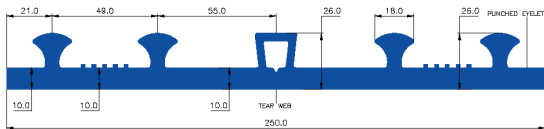
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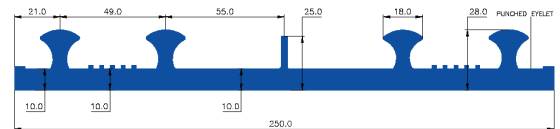
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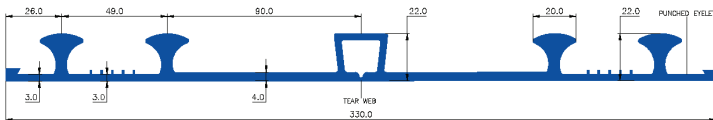
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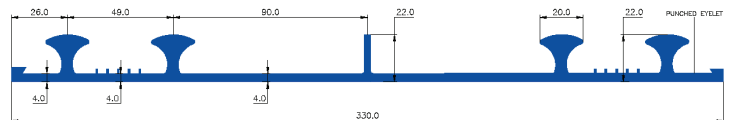
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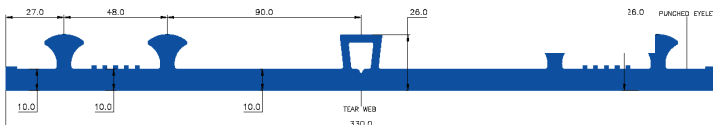
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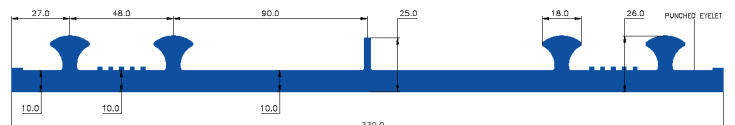
EE330



EC330



EE330HD



EC 330HD

NOTE: Full dimension drawings available upon request.

PROFILE WIDTH SELECTION

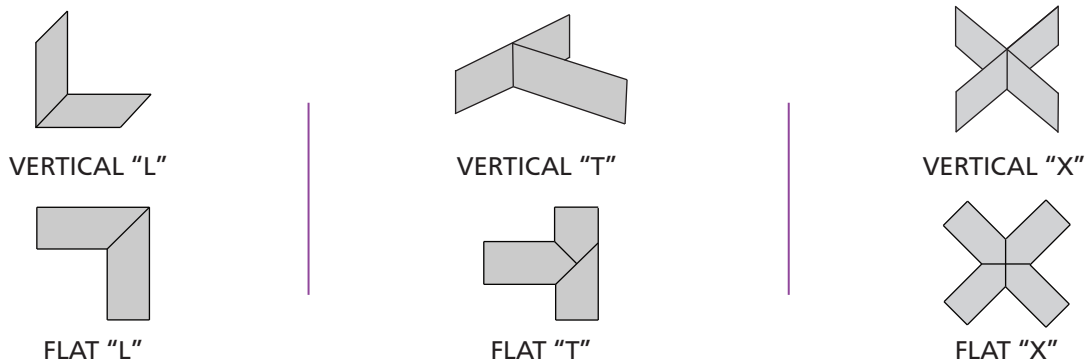
The width of waterstop depends upon the thickness of the concrete and positioning of the reinforcement. The thickness of the concrete should be greater than or equal to the width of the waterstop profile. Refer to your engineer for further clarification and approval.

SITE JOINING

KENAL PVT. LTD. recommends to use of its specialized welding equipment for on-site welding which consists of welding Irons and special welding jigs. On-site joining is a simple exercise using Heat Welding Equipment comprising of an adjustable welding jig and welding iron. The ends of the waterstop are cut square and placed into the adjustable welding jig, then push the ends of the waterstop against the Welding Iron and bring the two ends together until the molten ends of the PVC fuse.

FACTORY MADE INTERSECTIONS

A wide range of standardized prefabricated intersection pieces are available allowing easy site welding of butt joints to Kenal PVC WS junction pieces. Customized pieces can be made to suit. In such cases, drawings must be provided giving exact dimensions and jointing details.



WRITTEN SPECIFICATION

Where shown on the drawings waterstops shall be Kenal PVC WS (state profile required) as supplied by KENAL PVT.LTD. Provide factory made waterstop fabrications for all changes of direction, intersections and transitions, leaving only straight butt joined splices for on-site fabrication.

HEALTH AND SAFETY INFORMATION

Joining of PVC Waterstops is performed by heat welding which results in the discharge of hydrogen chloride mist and vapor. The OEL (operational exposure limit) of 5 ppm can be exceeded in confined spaces or in still air conditions, the ventilation fan or suitable respirator should be used, and the advice and approval of the Site Safety Supervisor is essential. For further information or advice on health and safety precautions, safe handling, storage and correct disposal of products, please refer to the most recent Material Safety Data Sheet (MSDS), which is available upon request.

The information and the recommendations relating to the application and end use of this product are given in good faith and are based on the information provided by the manufacturer of the product and/or the Company's current knowledge and experience in connection with the product when properly stored, handled and applied under normal conditions and no liability of final function at the job site is assumed. In practice, the differences in materials substrates and actual site conditions are such that no warranty in respect of merchantability of or fitness for particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written and/or oral recommendations, or from any other advice offered by the Company. The Company also has no express or implied knowledge of any particular purpose for which the product is required and any such information given will not be taken into account in the supply of this product. No responsibility or liability by the Company will be accepted for misuse, misreading or derivation from recommended guidelines in respect of this product and the user shall determine the suitability of the product for his inten





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