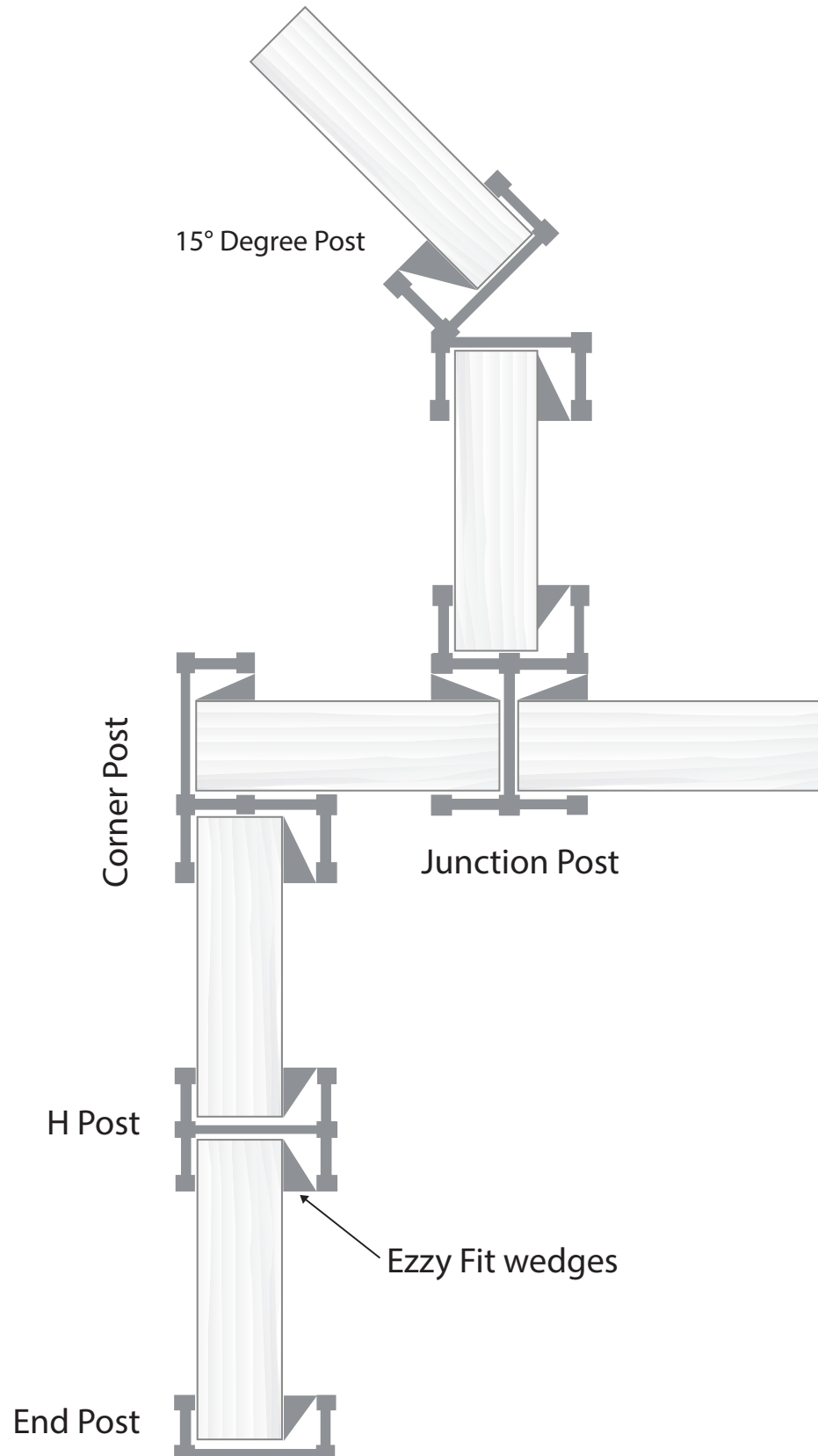




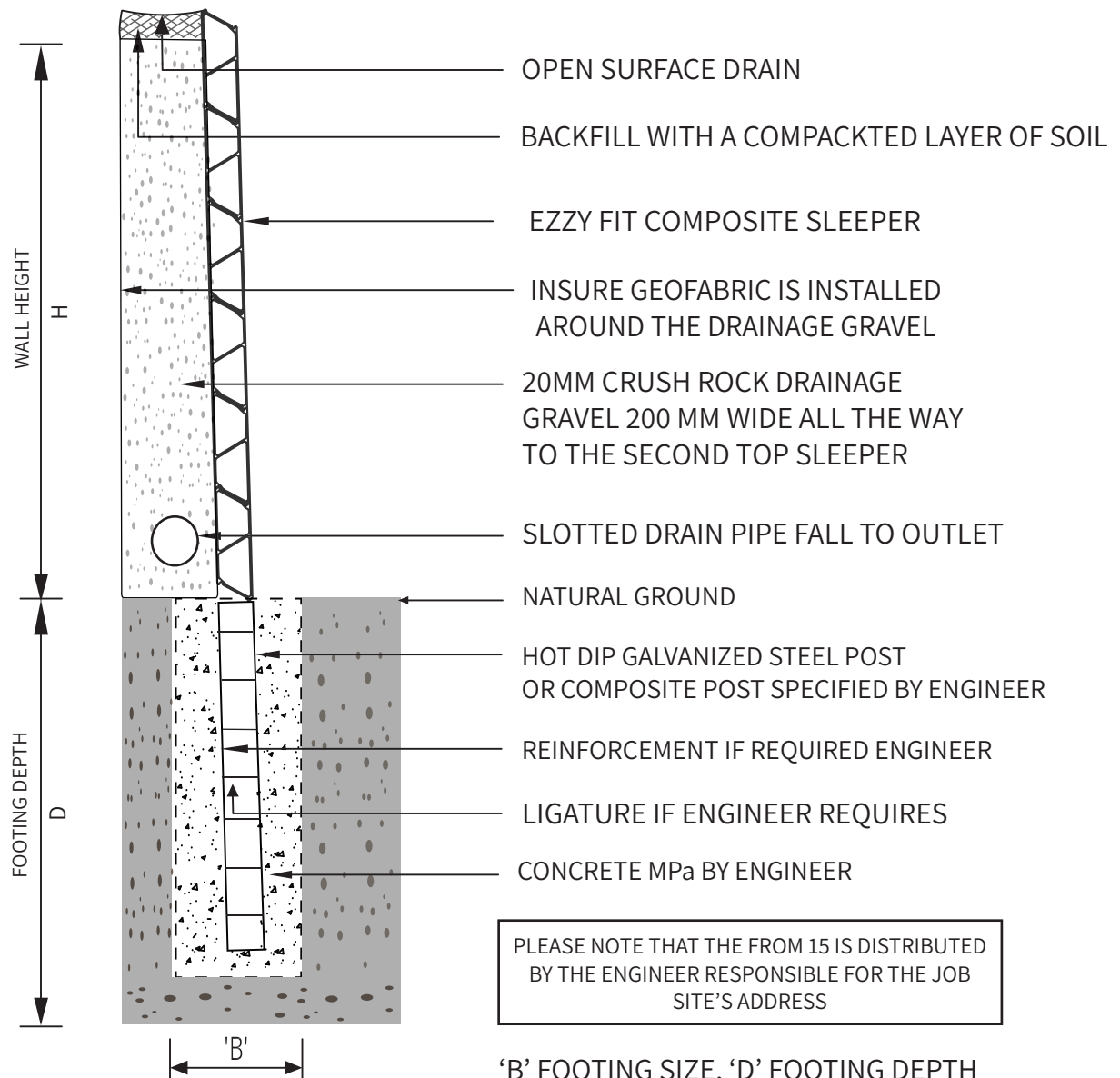
DIFFERENT POST POSITIONS EXAMPLES





EZZY FIT SLEEPER WALL

Wall heights exceeding 1 mtr must be designed by the responsible engineer overseeing the project. The diagram provided below is intended for reference purposes only.



'B' FOOTING SIZE, 'D' FOOTING DEPTH
'H' WALL HEIGHT

Technical Data Sheet

Ecoleader EL-4040N

Chemical/Physical Nature

EL-4040N is an unsaturated polyester resin derived from maleic acid, phthalic acid and standard glycols, dissolved in styrene. EL-4040N is of low viscosity and medium reactivity.

Major Applications/Principal Properties

EL-4040N is intended for Pultrusion, Hand lay-up, RTM process, etc. High light transmission of FRP, good infiltration of glass fibre.

Product Specifications

Property	Range	Unit	Test Method
Appearance	Clear	-	TM-017
Viscosity 23°C	350-550	mPa.s	TM-006
Solid Content	60-66	%	TM-011
Gel time 82°C	3-6	min	TM-016
Gel time 25°C	15-22	min	TM-018

TM-016: 100g resins with 2g CH50 (Akzo-nobel).

TM-018: 100g resins with 1.5g M50 (Akzo-nobel), 1g COB1 (Akzo-nobel).

Properties of liquid resin (typical values)

Property	Value	Unit	Test Method
Stability, no init., dark, 25° C	6	Month	-
Flash point	33	°C	-

Properties of cast resin (typical values)

Property	Value	Unit	TM
Tensile strength	65	Mpa	GB/T2567
Tensile E-modulus	3000	Mpa	GB/T2567
Elongation at break	5	%	GB/T2567
Flexural strength	105	Mpa	GB/T2567
Flexural E-modulus	2800	MPa	GB/T2567
Impact res.-unnotched	18	KJ/m2	GB/T1043.1
HDT	65	°C	GB/T1634.1

Curing conditions: cure for 24 hours at R.T., Post cure for 24 hours at 80°C;

Testing conditions: temperature: 23 ± 2 °C,
relative moisture: 50 ± 6 %

Processing

1. No accelerator in resin, when using resin, the curing system should be chosen according to the specific equipment, product, temperature and Pultrusion speed
2. Before using the resin, please mind the water content of glass fibre, Calcium carbonate, etc

Technical Data Sheet

Storage guidelines

The resin should be stored indoors in the original, unopened and undamaged packaging, in a dry place at temperatures between 5° C and 30° C. Shelf life is reduced at higher temperatures. Exposure to sunshine should be avoided. Store in dark and in 100% light tight containers only.

Material Safety /Test methods

A material safety data sheet and test methods referred for the product are available on request.



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Description of Zhongsheng FRP Reinforced Retaining Wall

Fiberglass reinforced plastics(FRP) are a composite material consisting of a matrix, usually a thermoset resin, and a reinforcement of fibers.

The reinforcing fiber adds strength and elasticity to the tough but weak matrix, creating a tough, long lasting material with the ability to produce sturdy, complex shapes in a variety of sizes.

Pultrusion is a cost-effective processing technique of forming and manufacturing a continuous length of fiber-reinforced polymer (FRP) by pulling a mix of reinforced fibers and liquid resin through a heated die.

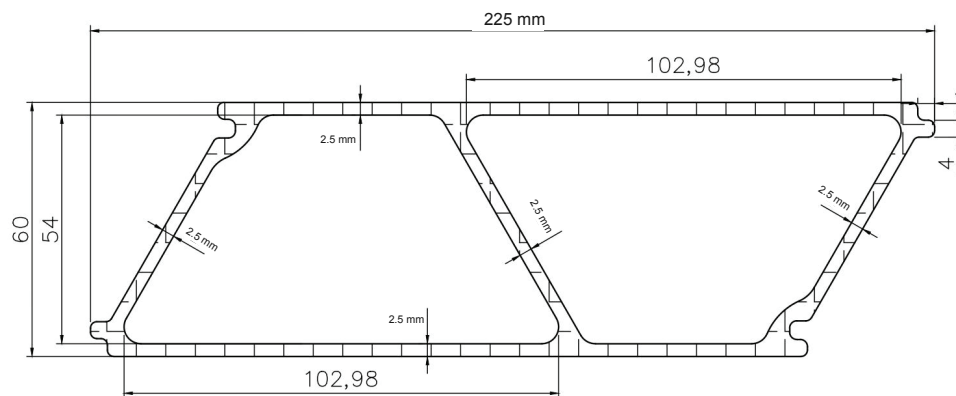
Cross Section Size of FRP Reinforced Retaining Wall

Width: 200mm

Thickness: 60 mm

Wall thickness: 2.5 mm

The Drawing of Cross Section:



Material Composite of FRP Reinforced Retaining Wall:

- * E glass fiber-176 Assembled Roving (Brand: JUSHI)
- * Unsaturated polyester resin- EL-4040N (Brand: Leader)
- * UV inhibitor(UV-329(5411)) {Chemical Name: 2- (2'-Hydroxy-5'-tert-octylphenyl) benzotriazole} & antioxidant B900 (0.5% in the resin totally)
- * Surface Veil: Composite Polyester Mat
- * Filler

Features:

Lightweight&high strength
Rust resistant & corrosion resistant
Advanced UV resistance
Low maintenance

Cost efficient
Easy to transport
Environmentally friendly
Relatively easy on-site assembly



Long service life
Electrically Non-Conductive
Resists Insect Damage

Low Water Absorption
Strong weather resistance

Applications:

- *Marine and construction industries
- *Chemical industry, petroleum industry
- *Utility and Telecommunications
- *Tool Manufacturing
- *Sporting, Recreational and Outdoor Equipment

FRP Seawall



FRP Retaining Wall



FRP Handrails and steps in Chemical Factory



FRP Support Beams for PV Power

