



L-shape units



MS ISO 9001 : 2015 REG NO AR 2824

SEDSCO Precast Sdn. Bhd. (328669-K)

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Design Criteria

The structural design is based on BS8110. Hydrostatic pressure is not considered and weep holes are provided along the wall to drain off the water that accumulates at the back of the wall.

The load imposed on SPSB Standard L-shape wall shall be to retain surface loading as well as the soil behind it and comprises of 3 types namely:

Type 1 (LEVEL FILLING, OPEN DRAIN)

An uniformly distributed load of 10KN/m² with level backfill behind wall.

Type 2 (NON LEVEL FILLING, OPEN DRAIN) & Type 3 (RETAINING WALL)

Surface slope inclined upwards at 30° comprising of an equivalent surcharge height of 600mm.

SPSB can also design and manufacture to meet any other specification as required by the client.

Specification

Characteristic strength of concrete shall be 40N/mm²

Density of compacted fill material shall be 19KN/m³

Dimensional tolerance shall be in accordance with BS8110

Backfill Material

Backfill material shall be of purely granular soils such as clean sand, gravel, sand and gravel or as approved by Engineer.

Effective drainage behind the wall shall be accommodated by providing gravel or crushed stone at the intake end of weephole or as approved by Engineer.

Joints

Units shall have butt joints. Dowel bars, if required, shall be provided upon request for the construction of insitu capping beam.

Quality Assurance

Quality Assurance in the manufacture of the product is provided by widely established MS ISO 9001 Quality Management System.



Various sizes of L shapes

SPSB PRECAST CONCRETE L-SHAPE UNITS

Versatility in use

- Wide open drains.
- Retaining walls.
- Storage walls.
- Other civil engineering and construction applications.

Advantages of precast over cast insitu

- Provides simplicity and reliability thereby giving flexibility of design and rapid installation.
- Use of steel forms ensures dimensional accuracy and consistent finish of completed precast concrete products.
- Precast requires production facilities under factory-control conditions.
- Quality and workmanship can be controlled more accurately.
- Precast can be easily assembled and positioned by relatively unskilled labour at site. In waterlogged ground, ground water infiltration is less likely.
- Shorten construction period considerably.
- Precast provide savings in site space.
- Precast have their own built in natural resistance in view of higher quality.
- Cleanliness of precast are considered to be aesthetically pleasing.
- Maintenance is usually not required.

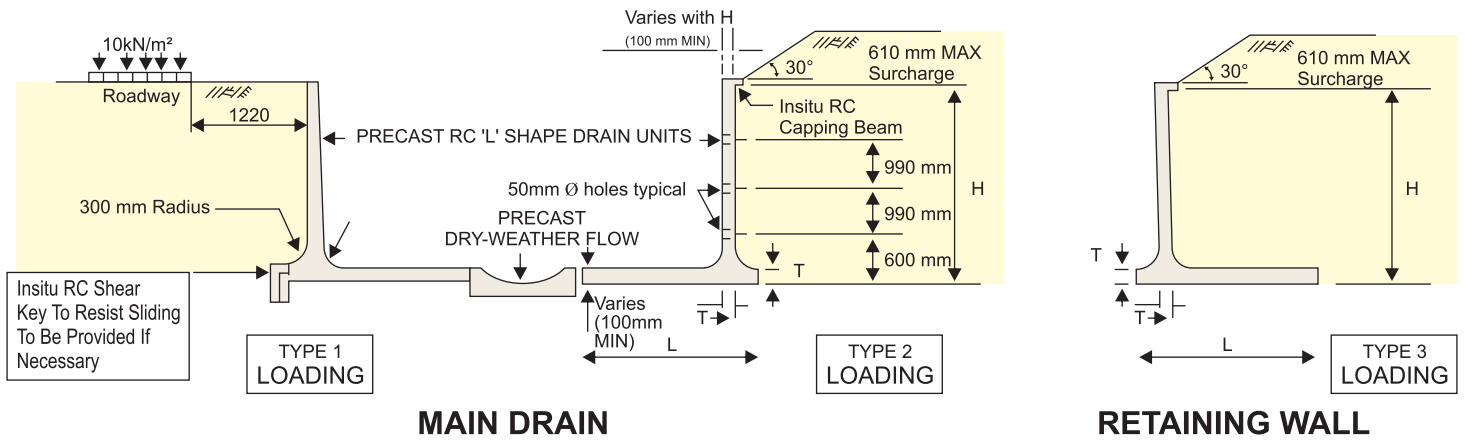


MIG welding for caging



Steel form for dimensional accuracy

REINFORCED CONCRETE L - SHAPE UNITS



STANDARD DIMENSIONS & PROPERTIES

H mm	T mm	TYPE 1 LOADING		TYPE 2 LOADING		TYPE 3 LOADING	
		L mm	WT.PER UNIT TONNES	L mm	WT.PER UNIT TONNES	L mm	WT.PER UNIT TONNES
915	150	1080	0.865	1080	0.865	1605	1.015
1220	150	1080	0.972	1080	0.972	1845	1.181
1520	150	1380	1.160	1380	1.160	2070	1.335
1830	150	1690	1.344	1690	1.344	2300	1.486
2130	150	1990	1.517	1990	1.517	2525	1.627
2440	150	2300	1.681	2300	1.681	2750	1.764
2740	150	2600	1.829	2600	1.829	2950	1.891
3050	200	2910	2.725	2910	2.725	3150	2.801
3350	200	3310	2.983	3310	2.983	3365	2.991
3650	200	3770	3.240	3770	3.240	3575	3.183

Notes:

- Standard length of L-Shape Unit is 1000 mm.



Typical L shapes installation site