

**1- What are the Keystone
components?**

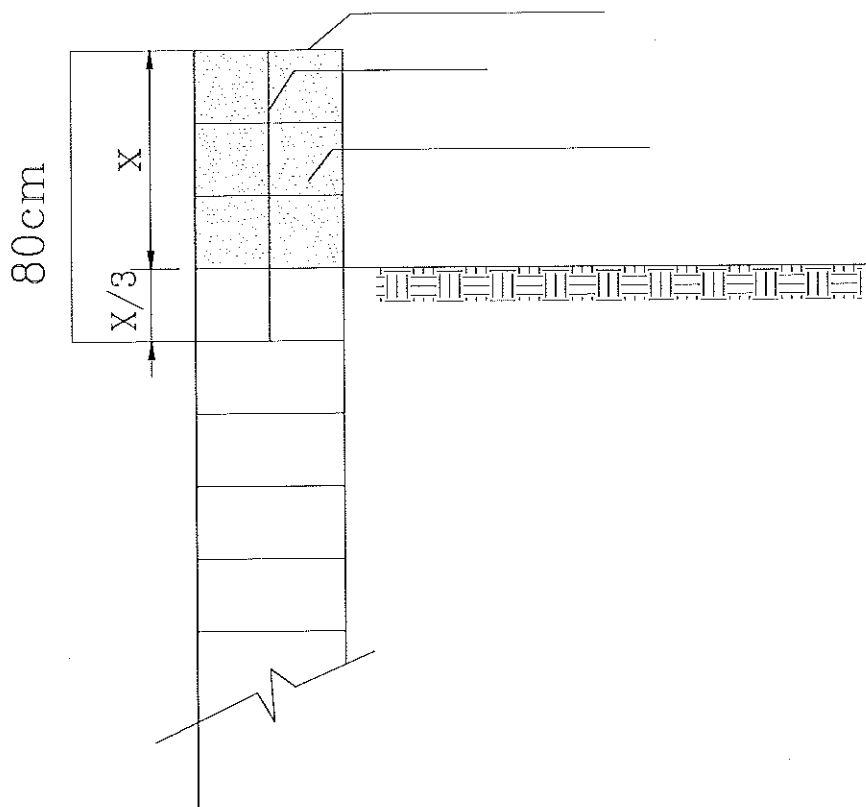
Keystone free parapet:

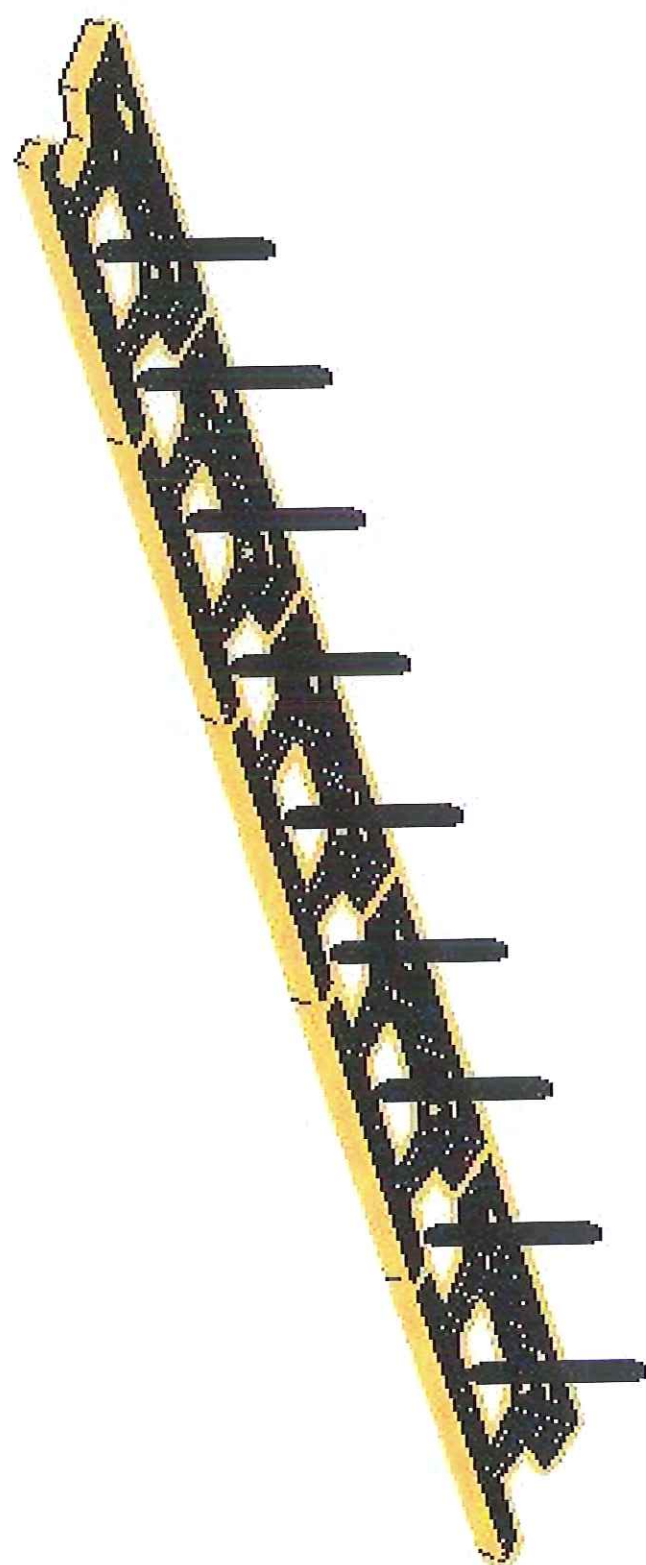
To construct this type of walls using compact II Keystone block + fiber glass pins + Steel bars + Plain concrete

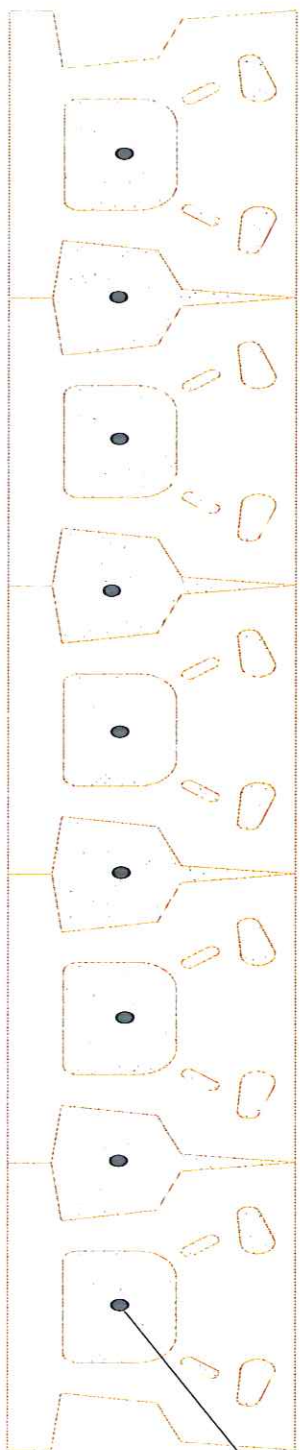
1. Raise the three Keystone blocks up to the required level for top of parapet.
2. Construct the three Keystone blocks.
3. Steel reinforcement is required for the parapet to resist lateral loads, (As shown in the attached detail). The steel bars should have anchorage length of one third of the parapet height, then to connect steel bars with ties. Fill all cavities in and between blocks with concrete Grout. (as per below detail)

Construct the form work behind the blocks

4. Mortar cement filling all voids inside and between blocks. Sand ratio 0.8 m³, seine ratio 0.4 m³, cement ratio 350 kg and reduce water ratio.







steel bars $L=80\text{ cm}$
Dmr $\varnothing 12$