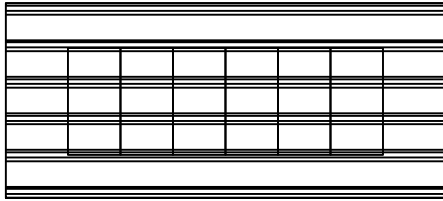
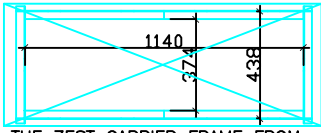


THE ZEST HIVE FOR B.S. NATIONAL CONVERSION OPTION 2. TO DEPLOY 440 LONG BLOCKS COMPONENTS

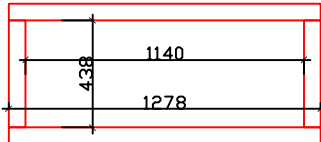


ROOF

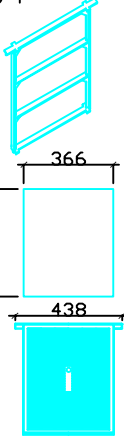
1800 X 1000 METAL SHEET HELD DOWN WITH ROPES AT EACH END ONTO ROOF BLOCKS. PROVIDE 2 SHORT PIECES OF 12 DIA. HOSE TO PROTECT THE ROPE AGAINST THE SHEET EDGE.



THE ZEST CARRIER FRAME FROM THE ZEST HIVE CO. LTD (also showing 1300x500 heavy duty plastic cover sheet)



OR MAKE WOOD FRAME FROM 69X20 SOFTWOOD AND STAPLE AT CORNERS. SEE NOTE 17 BELOW. and set the frames down on the wall blocks



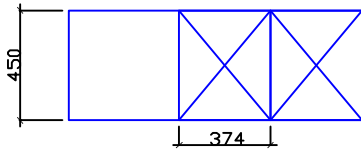
24 PLASTIC ZEST FRAMES FROM THE ZEST HIVE CO. LTD

2# 6MM. PLASTIC CORDEK BOARDS TO TURN 2 QUEEN EXCLUDERS INTO PARTITIONS TO LIMIT COLONY SPACE. FROM THE ZEST HIVE CO. LTD

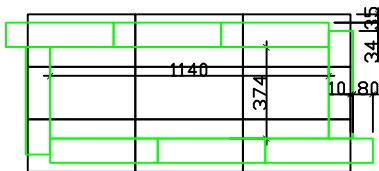
4# PLASTIC QUEEN EXCLUDERS. FROM THE ZEST HIVE CO. LTD. (2 TO FORM THE BASE FOR THE 2# CORDEK PARTITION INSERTS WHICH SHALL RECEIVE A WINE CORK SIZED HOLE FOR CORK AND TO ALLOW IN-HIVE FEEDER ACCESS)



1# 1200x450x50MM. WINTER ROOF INSULATION

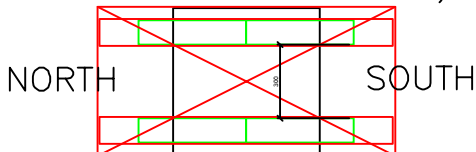


2# 20MM. WINTER PARTITION INSULATION



BLOCK EXTERNAL ENVELOPE

FLOOR WALLS AND ROOF FORMED FROM 31#440X215X100 LIGHTWEIGHT INSULATING BLOCKS. (9# TO BE LAID ON 12mm PLYWOOD AS FLOOR, 8# FOR EACH WALL COURSE AND 6 FOR THE ROOF)



SUPPORT EXTERNAL ENVELOPE

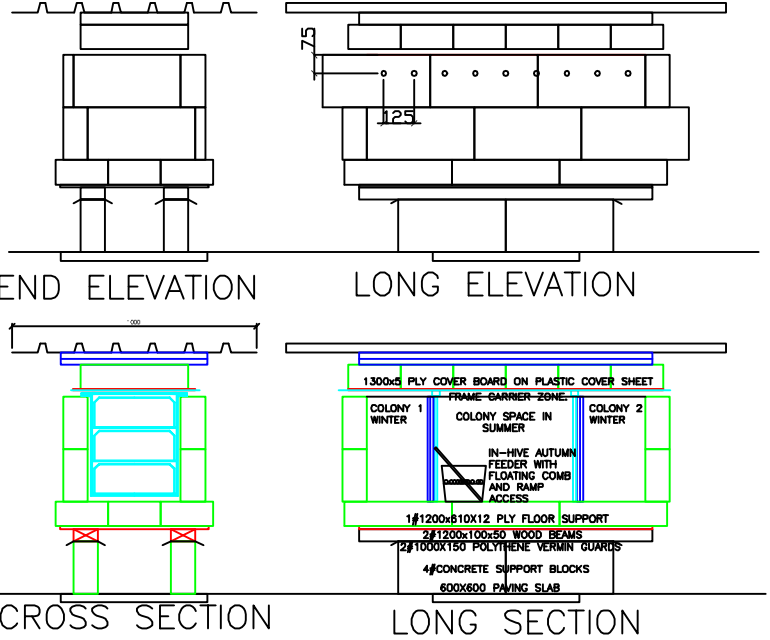
1# 1220X610X12MM PLY FLOOR SUPPORT LAID ON 2# 1200X100X50 TREATED SOFTWOOD BEAMS ON OVERHANGING POLYTHENE D.P.C. (TO DETER CLIMBING VERMIN) ON 4# 440X215X100 HEAVY CONCRETE BLOCKS CANTIVERED OUT OVER EDGES OF 600X600 CONCRETE SLAB.

- BLOCKS
- WOOD
- INSULATION
- PLASTIC

5# TOTAL SLIDE BINDERS TO MAKE
10# 75 slide binders to allow adjustable bee access and ventilation.
2# 100 slide binders to join carrier frames in the middle of the sides

1300X500X5 ply cover board to transmit load of roof blocks onto carrier all round

ASSEMBLY



Guidance on building your ZEST hive

1. Clear the ground and level it. Treat it with something unpleasant (like used engine oil) but not dangerous. To prevent burrowing rodents from undermining the foundation slab.
2. Lay the 600x600x38 foundation paving slab. Level with a spirit level. There is only one slab so that any uneven settlement can be easily dealt with by levering it up and repacking with earth to re-level it.
3. Lay the 4# 440x215x100 heavy foundation blocks on the slab as shown on the drawing, being corbelled out from the foundation paving slab.
4. Lay 2# 1000x150 polythene d.p.c. vermin guards on the foundation blocks.
5. Lay 2# 1200x100x50 treated softwood on the blocks as floor support beams.
6. Lay 1# 1220x610x12 ply sheet on support beams.
7. Lay 31# 440x215x100 lightweight insulating blocks on the plywood on the wood beams to form the floor (9), roof (6) and walls (16). They are to be as ultra lightweight as possible such as "Durox Aircrete". If not available other lightweight blocks may be used.
7. Assemble the plastic carrier frame. Lay it on the block floor so that is central in both directions and mark the internal volume of the ZEST hive on the floor. Lay the wall blocks to the lines.
8. Ensure that the vertical joints are staggered in the second course to achieve bond. Blocks are laid loose.
9. Place the carrier frame onto the top course of wall blocks and ensure alignment.
10. Assemble and insert the plastic frames, partitions and queen excluders as required into the hive.
11. Refer to the drawing "Zest Transition and Management Diagrams" for colony insertion from a traditional B.S. hive.
12. Deploy the 2# closing partition board insulation on the side of the partition away from the bees.
13. Deploy the lastic cover sheet on the frames and the edging.
14. The 6# 440x215x100 roof blocks are placed on the 1220x500x5mm ply sheet laid on the top edges of the carrier frame or the wood containment frame whichever is used.
15. Lay the 2000x1000 roof sheet on the roof blocks and strap down. This can be scrap metal and is preferred.
16. Hold the roof sheet down with holding down ropes at each end with the rope passing under the floor beams. Protect the rope at the sheet edge contact points with plastic hose. Additional insulation sheet is best deployed on the roof blocks in winter.
17. Deploy the 10# slide binders at the entrances if the plastic carrier frame is deployed.
18. The ZEST plastic carrier frame can be replaced with a wood containment one. Ventilation and bee access holes of 22mm. (wine cork sized) will need to be drilled through the block approximately 75mm. down where show on the elevation. These will receive virgin cages which can be open or closed to bees and/or air as required.