Hexagonal BBQ Table
STEP BY STEP INSTRUCTIONS + MATERIALS LIST

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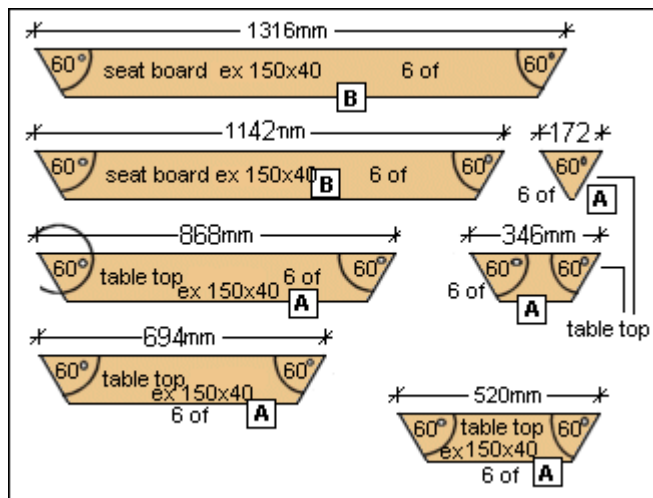
About the timber sizes.

All dimensions are in mm (millimetres)

The timber sizes referred to in his project are ex 150x40 and ex 100x50. Ex means the nominal size which is the size of the timber before it is dressed (smooth, gauged, planed). When the timber is dressed, the actual size is then less than the nominal size. For example: 150x40 when dressed may become 140x35 actual size and 100x50 when dressed may become 94x46 actual size.

The Actual sizes can vary slightly from area to area but that should not have any effect on the dimensions given through-out this project. What will vary, depending on the actual size of the timber, is the gap between each row of table top boards and seat boards.
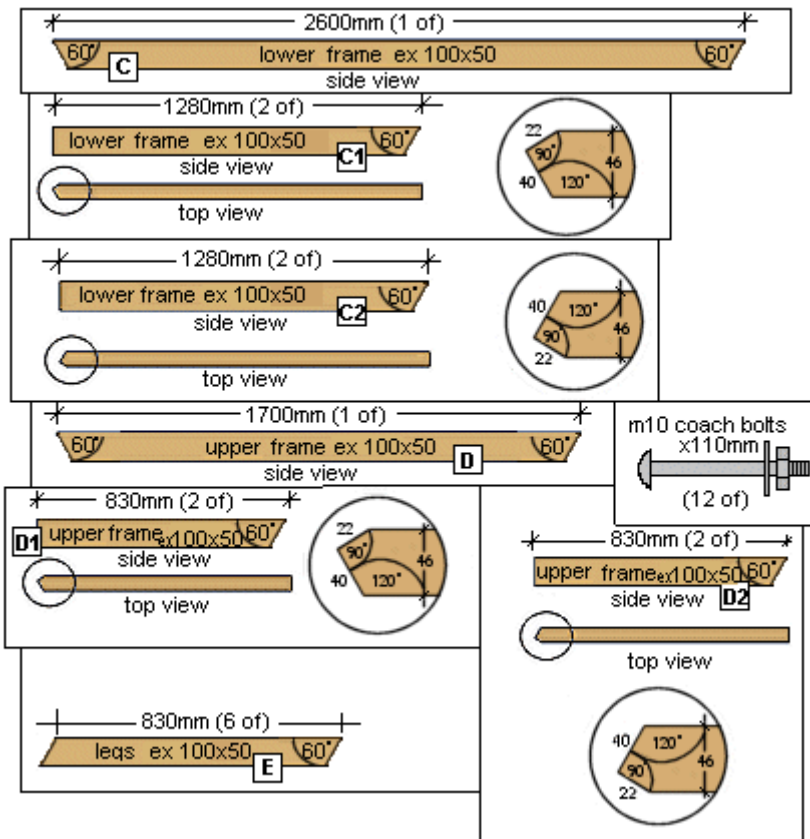
The Timber cutting list. Seat and tabletop boards.

The timber used for the seat and tabletop boards, in the cutting list below is ex 150x40 dressed bevelled treated pine. This timber is available at most timber merchants and is usually used for retaining wall boards.
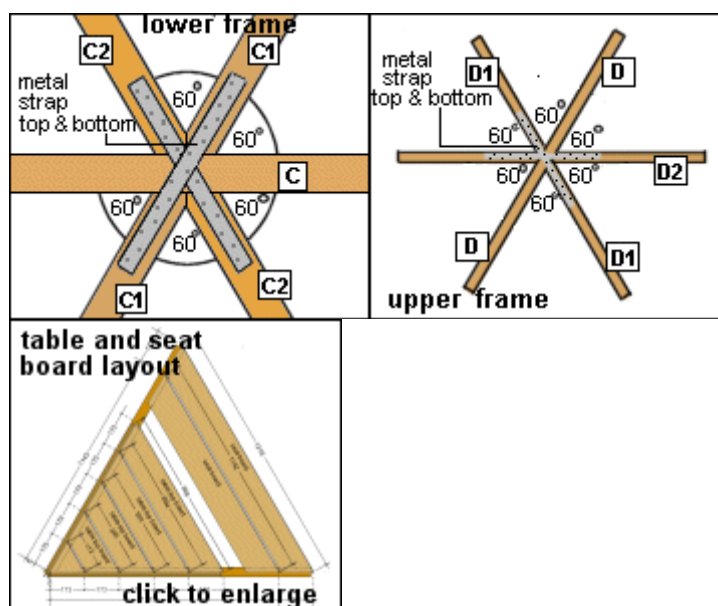

The Timber cutting list. Table frame.

The timber used for the table frame, in the cutting list below is ex 100x50 dressed treated pine. This timber is available at most timber merchants.

Diagram labels (cutting list)

2600mm (1 of)
60° | C | lower frame ex 100x50
side view

1280mm (2 of)
lower frame ex 100x50 | C1 | 60°
side view
top view
22 | 90° | 46 | 40 | 120°

1280mm (2 of)
lower frame ex 100x50 | C2 | 60°
side view
top view
40 | 120° | 90° | 46 | 22

1700mm (1 of)
60° | upper frame ex 100x50 | D | 60°
side view

m10 coach bolts x110mm
(12 of)

830mm (2 of)
D1 | upper frame ex 100x50 | 60°
side view
top view
22 | 90° | 46 | 40 | 120°

830mm (2 of)
upper frame ex 100x50 | 60° | D2
side view
top view

830mm (6 of)
legs ex 100x50 | E | 60°
40 | 120° | 90° | 46 | 22

Instructions. Upper and lower frames

Make up both the table top support upper frame (d, d1, d2) and the seat support lower frame (c, c1, c2), on flat ground using the materials in the cutting list above. The centre of both frames should be fixed as shown in drawing below, and the end outer points of the frames (6 each frame) should be equal distances apart.

Nail two metal strap plates to the top side and to the underside of both frames (8 strap plates in all). See drawing below.
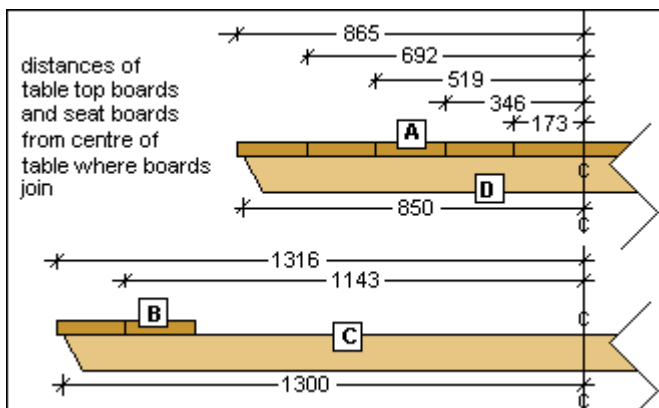
lower frame
C2 | C1
metal strap top & bottom | 60° | 60°
C
60° | 60°
60°
C1 | C2

metal strap top & bottom
D1 | D
60°
60° | 60°
60° | 60°
60°
D2
D | D1
upper frame

table and seat board layout
click to enlarge

To see enlarged table top and seat board lay-out plan click here

Instructions. Seat and table top boards.

Mark out from the centre of both frames (measurements shown in diagram below) along every arm of the two frames. These are used as guides for placing the boards. Nail the cut tabletop boards (A's) to the upper frame (D's) begining with the outer boards (longest boards). Ensure the joins are in the middle of the frame arms and equal distance from the center point of the frame. Continue around the frame with the next longest board and so on untill the table top is complete.
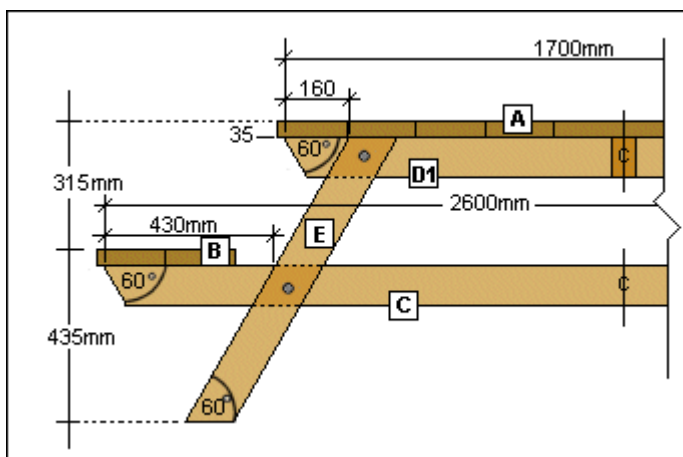Do the lower (seat) frame (C's) in the same way using the cut seat boards (B's).

Use 90mm galvanised flathead nails to fix the boards to the frame. Drill nail holes first to keep timber from splitting.

Instructions. The legs.

Lay the finished table top upside down on flat ground. Position the finished seat frame upside down above the tabletop. Place packers or blocks under the seatframe so that the seatframe sits 315mm above ground. Position the legs in place as per below drawing. Hold with clamps, drill and bolt.

Eazy with a Z

MATERIAL	USED FOR	AMOUNT
ex 150x40 bevelled dressed treated pine	tabletop boards and seat boards	32 metres

ex 100x50 dressed treated pine	frame and legs	20m
m10x110 galvanised coach bolts	bolting legs to frame	12
90mm galvanised flathead nails		1 kg

Table and seat board layout

173

173

1143

173

173

173

173

173

seat board
1142

seat board

1316

868

table top board
694

table top board
520

table top board
346

table top board
172

table top board

173 — 173 — 173 — 173 — 173

1143