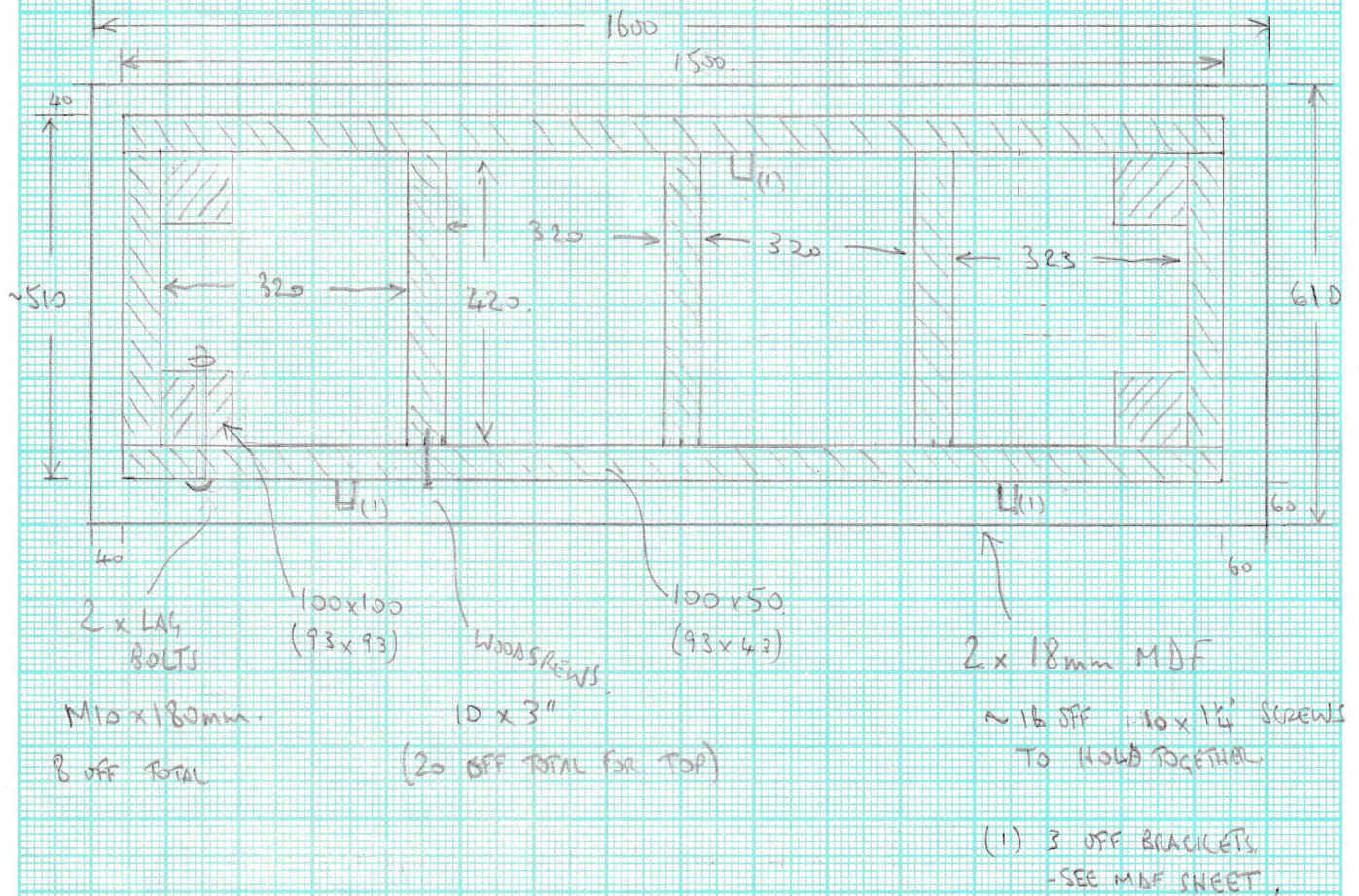


AS BUILT FEB 2022 (CHECKED 2/8/22)



ABOVE - CROSS-SECTION SHOWING MAIN FRAME AND MDF TOP.

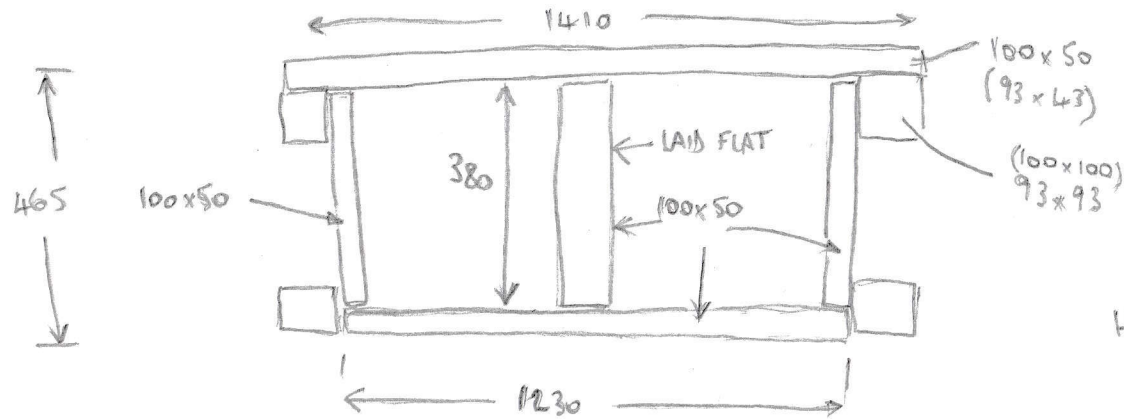
MATERIALS FROM.

- WOOD AND MDF PURCHASED FROM NOTTAGE TIMBER MERCHANTS, BRIDGEND.
- LAG BOLTS. - TOOLSTATION.
- WOODSCREWS. - WATSONS PENARTH (?)
- BRACKETS. - BISHOPSTON HARDWARE, BRISTOL
- AUGER BIT. - AXMINSTER TOOLS, CULVERHOUSE CROSS.
- TITEBOND GLUE. - AXMINSTER TOOLS, CULVERHOUSE CROSS.
- GLAZE - FIDDES. PENARTH ROAD.

TOTAL WEIGHT APPROX 77 kg.

S. Sims 2/8/22.

BOTTOM SHELF - AS BUILT (NOTES 2/8/22)

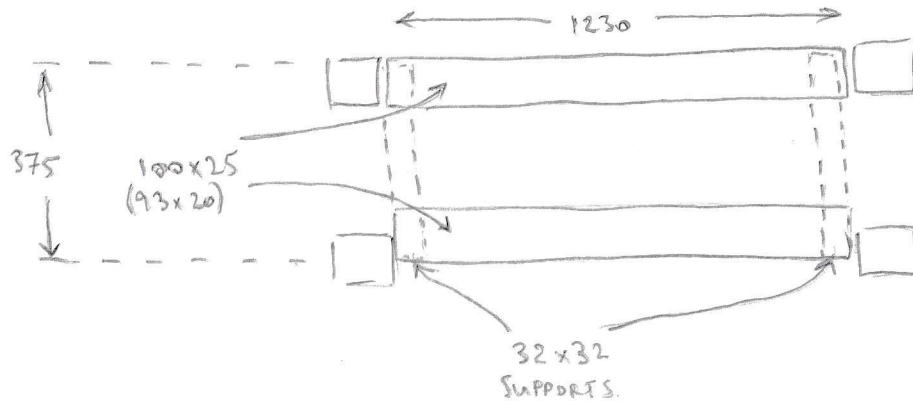


+ 18 OFF 10 x 3 WOODSCREWS.

HEIGHT FROM FLOOR TO TOP OF MDF ~ 250 mm.
BASE OF MDF ~ 230 mm.

MDF SHELF 465 x 1220 x 18.

TOP SHELF - AS BUILT (NOTES 6/8/22)

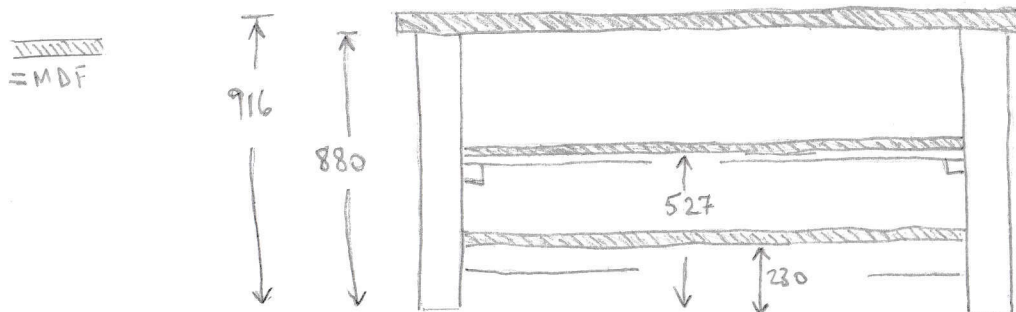


+ 14 OFF 10 x 3 WOODSCREWS

HEIGHT FROM FLOOR TO TOP OF MDF 545 mm
BASE OF MDF 527 mm

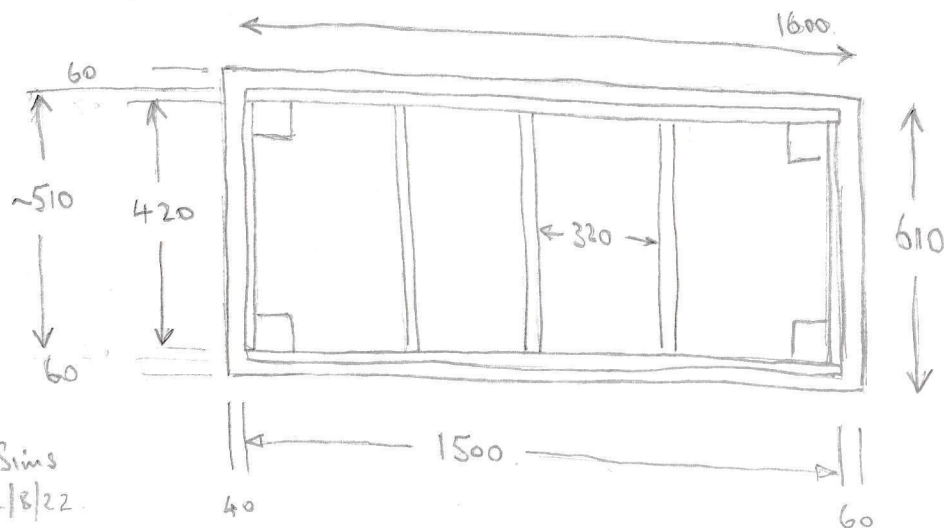
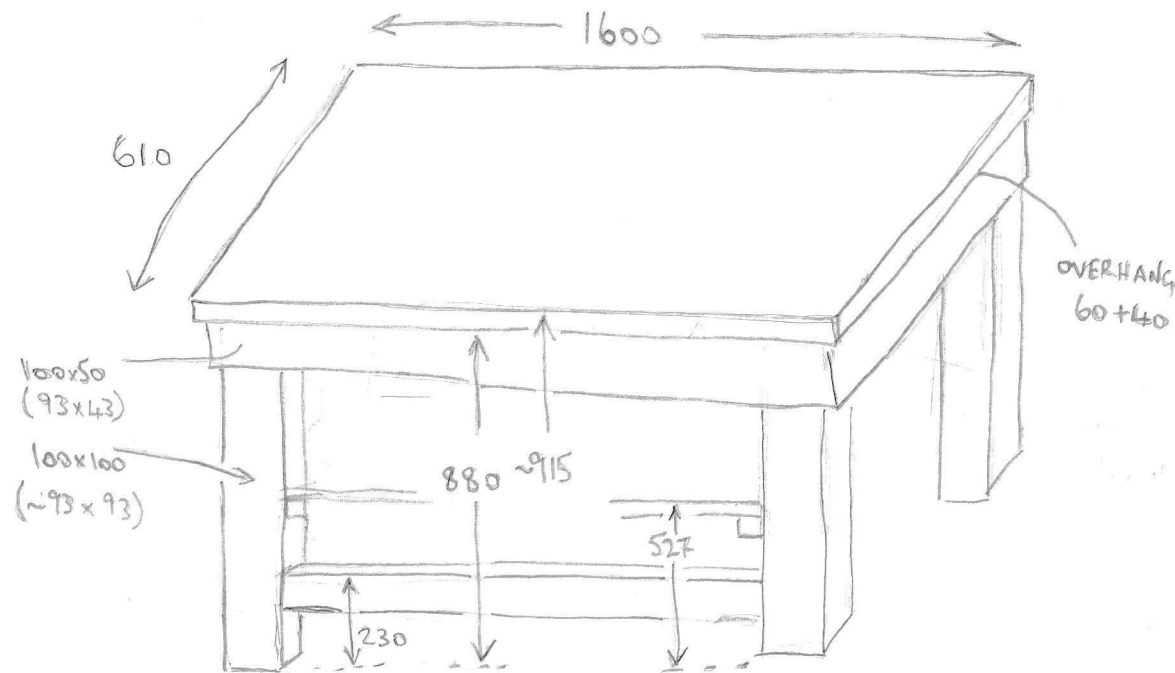
MDF SHELF 375 x 1220 x 18

HEIGHTS.



S. Sims 2/8/22.

AS BUILT NOTES



S. Sims
2/8/22

WEIGHT

MDF ASSUME $\rho = 720 \text{ kg/m}^3$

$$2.44 \times 1.22 \times 0.018 \times 720 = 38.6 \text{ kg}$$

REDWOOD ASSUME $\rho = 520 \text{ kg/m}^3$

LEGS $(0.093)^2 \times 3.52 \times 520 = 15.8 \text{ kg}$

100x50 $0.093 \times 0.043 \times 8.88 \times 520 = 18.6 \text{ kg}$

100x25 $0.093 \times 0.02 \times 2.46 \times 520 = 2.4 \text{ kg}$

32x32 $(0.032)^2 \times 0.75 \times 520 = 0.4 \text{ kg}$
37.2 kg

LAG BOLTS $8 \times 0.084 \text{ kg} = 0.67 \text{ kg}$

SCREWS $\sim 0.3 \text{ kg}$

TOTAL WEIGHT = $38.6 + 37.2 + 0.97$
 $= 76.7 \text{ kg}$

WORKBENCH AS BUILT - MDF

- TOP 610 x 1600 x 18 2 OFF (MDF x 2)

MDF SHEET PURCHASED 2440 x 1220 x 18

CUT TO $\left[\begin{array}{l} 1600 \times 610 \text{ 2 OFF} \\ + 840 \times 1220. \end{array} \right]$

- MDF COATED WITH 3 COATS OF FIDDES CLEAR SATIN GLAZE (4 COATS OF EDGES)

840 x 1220 THEN CUT TO

APPROX 375 x 1220 - TOP SHELF

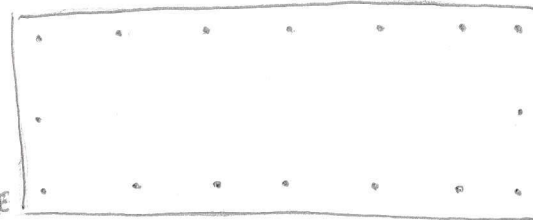
465 x 1220 - BOTTOM SHELF

TWO LAYERS OF MDF FOR TOP FIXED TOGETHER BY:

- (1) PREPARING APPROX 16 COUNTERSUNK HOLES FOR $10 \times 1\frac{1}{4}$ " SCREWS THROUGH ONE LAYER OF MDF AND INTO 2ND LAYER

(3 mm DRILL) SCREW PARTLY IN PLACE

TO BE READY AFTER GLUE APPLIED.



- (2) COVERING ONE SURFACE WITH TITEBOND ORIGINAL WOOD GLUE.

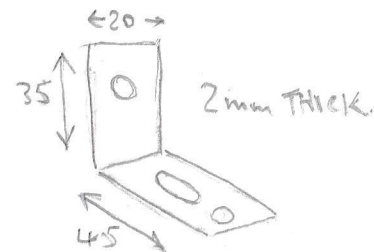
- (3) PLACING 2ND MDF SHEET ON TOP AND IMMEDIATELY SCREWING IN THE SCREWS.

- (4) PLACING WEIGHTS ON TOP AND LEAVE TO SET

TO MAIN FRAMEWORK

TOP HELD IN PLACE IN 3 PLACES USING 35×45 BRACKET.

$10 \times 1\frac{1}{4}$ " SCREW INTO BENCH
+ $10 \times \frac{3}{4}$ " SCREW INTO MDF.



LOWER SHELVES LEFT LOOSE (NOT SCREWED).

TOTALS USED.

• 1 TIN FIDDES CLEAR SATIN GLAZE (1 LITRE)

• TITEBOND ORIGINAL
WOOD GLUE (HALF 80%
BOTTLE USED)

WOOD

100 x 50 TOP $(1500 \times 2) + (420 \times 5) = 5,100$

BOTTOM SHELF $1230 + 1410 + (380 \times 3) = 3,780$

8,880

ORDERED $3 \times 4.2m = 12.6m$, (3.72m EXCESS)

100 x 100 LEGS. $880 \times 4 = 3,520$

ORDERED $1 \times 5.4m = 5.4m$ (1.88m EXCESS)

100 x 25 TOP SHELF $2 \times 1230 = 2,460$

ALREADY HERE.

32 x 32 TOP SHELF $2 \times 375 = 750$

ALREADY HERE.

MDF

1 SHEET $2440 \times 1220 \times 18$ ORDERED.

PRE-CUT TO 2 OFF 1600×610

1 OFF 840×1220

LAG BOLTS.

8 OFF $M10 \times 180mm$.

WOOD SCREWS.

$10 \times 3"$ 20 (TOP) + 18 (BOTTOM SHELF) + 14 (TOP SHELF)
 $= 52$.

$10 \times 1\frac{1}{4}"$ 16 (MDF) + 3 (BRACKETS) = 19.

$10 \times 3/4"$ 3 BRACKETS = 3.

BRACKETS.

20 WIDE $\times$ 2 THICK $\times$ 45 $\times$ 35 = 3.

AUGER BIT

1 OFF 10mm DIAMETER FOR LAG BOLT HOLES,

DRILL BIT

3mm.