



145 Havant Road,
Hayling Island,
Hants.

PO11 0LE.

24th Sept. 2013.

Ref. APP/11/01585.

Dear Ms Shore,

Ref our telephone conversation this morning and my request to change the design of a window at building works being undertaken at the above address.

As you requested I have drawn to scale the proposed change from a circular window to an arch window.

I was initially advised that if I ensured that the size of the circular window was the same area as that of the two original square windows on this aspect of the building combined, then this would satisfy objections raised. To this end I have ensured that the total area of the arch window would also be the same (actually a little less) as that of the two square windows combined. I provide the following calculations in respect of this:

Original square window - ① $62 \text{ cm} \times 103 \text{ cm} = 6386 \text{ cm}$ in area

" " " - ② $62 \text{ cm} \times 92 \text{ cm} = 5704 \text{ cm}$ in area.

12,090 cm Total area.

Circular window - (πr^2)

$$3.142 \times r^2 = 12,090 \quad (\text{Area allowed from above})$$

$$\therefore 12,090 \div 3.142 = 3,847.9 \text{ so } 3,847.9 = \text{radius}^2$$

$$\therefore \sqrt{3,847.9} = 62.031 = r \text{ (radius of circle)}$$

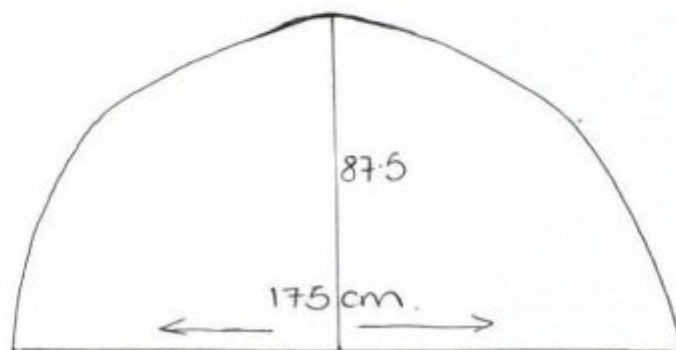
$$+ 124.062 = \text{diameter of circle.}$$

Proposed arch window. = $\frac{\pi r^2}{2} = (\frac{1}{2} \text{ circle calculation})$

Total area allowed = 12,090 cm.

For 87.5cm radius arch. = $\frac{3.142 \times 87.5^2}{2} = 12,027.9 \text{ cm}$
(Note: slightly less than allowed).

$\therefore$ Diameter (base) of arch = $87.5 \times 2 = 175 \text{ cm}$.



On the scale drawing you can see that the depth of the arch is less than the circle, and thus viewpoint is actually decreased. The arch is slightly wider, but this is only at base / sill level and from a viewpoint perspective it is narrower than that of the 2 original windows, which from the edge of one to the edge of the other was 1.86 m (compared to the 1.75 of the arch base).

I hope my drawing and explanation / calculations have shown that the view over the objecting property would actually be less than that of both the original windows and the circular window.

I am requesting this minor change in order to flatten the base of the circle and thereby avoid potential damp / leakage problems.

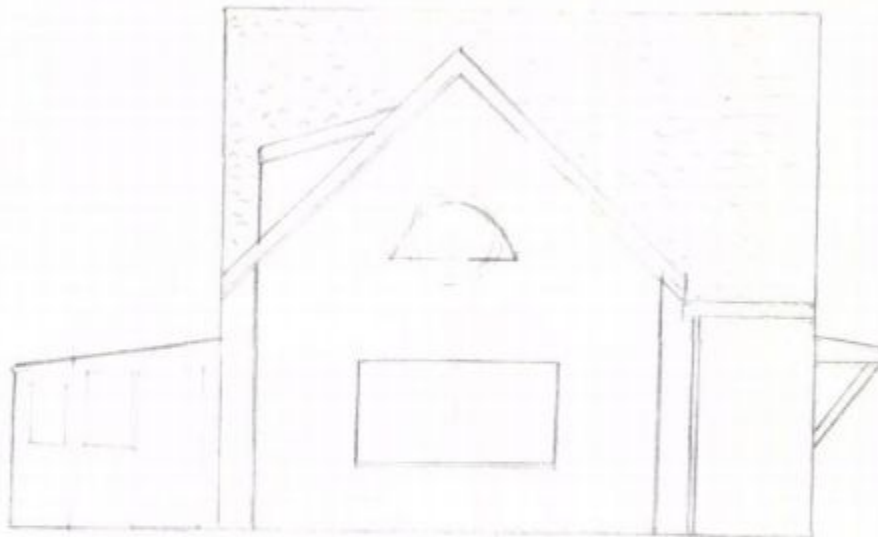
I look forward to your comment.

Many thanks,

Yours sincerely,

MISS. G. RICHARDSON.

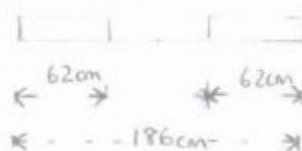




COPIED FROM PLAN A103 - SOUTH ELEVATION: SCALE 1:100 AT A1

145 HAVANT ROAD HAYLING ISLAND

COPIED FROM PLAN A104 v2 - FIRST FLOOR PLAN SCALE 1:50 AT A1



← ORIGINAL WINDOWS X 2 TO
SCALE FOR COMPARISON.

HAVANT BOROUGH
COUNCIL

24 SEP 2013

RECEIVED

APP/11/01585