

## SIGN POST DIAMETERS AND FOUNDATIONS

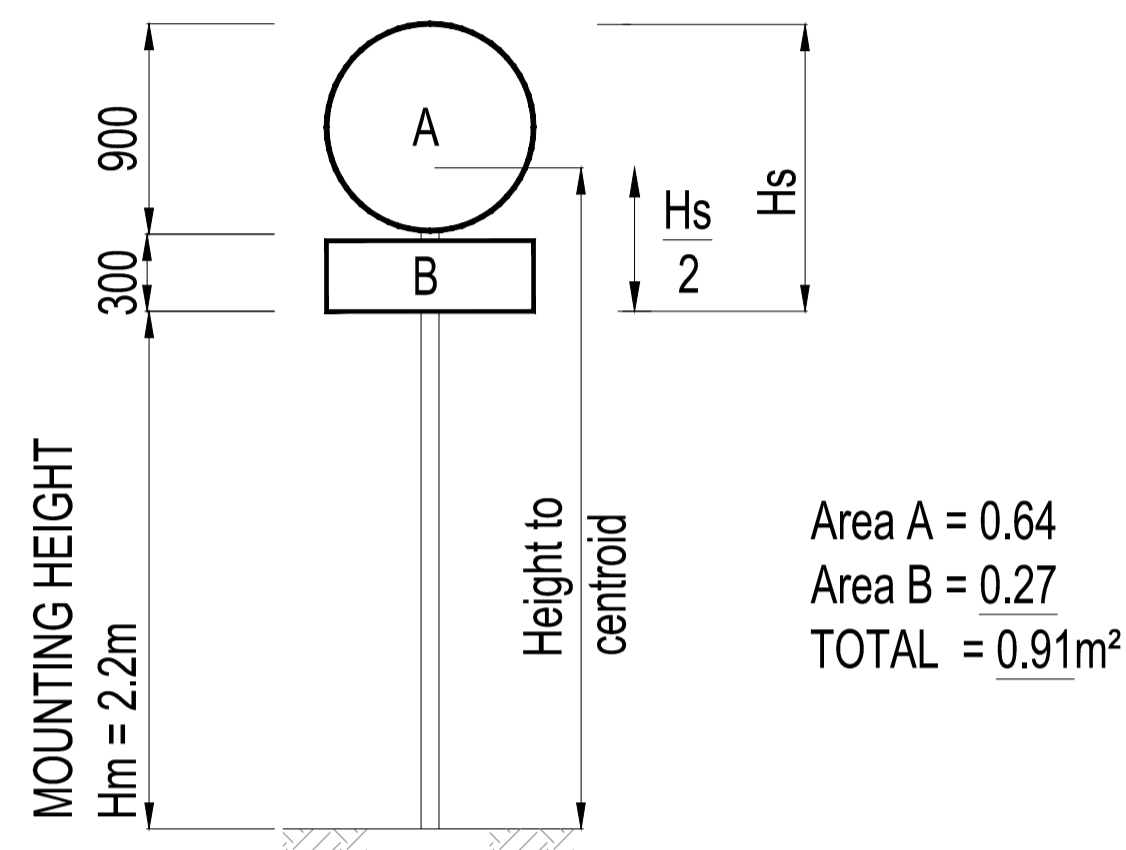
### NOTES

1. Passively safe posts must be considered for all assemblies with posts of 144mm diameter and above unless protected by some form of safety barrier
2. All dimensions are in millimetres unless otherwise stated.
3. Signs must be designed according to the Traffic Signs Manual and the Traffic Signs Regulations and General Directions
4. Charts are provided for determining post sizes and foundation types on Drawing Nos HST/1200/004-007. They are suitable for rural areas but should not be used for signs in very exposed areas. In these locations calculations from first principles or suitable sign design software should be used.
5. For signs having a Area/Height greater than the limits provided on the Charts, first principles or appropriate sign design software to BS 12899-1 should be used.
6. The Charts assume the foundations will be in a Soft clay, clay loam, poorly compacted sand, clays containing a large amount of silt and vegetable matter and made-up ground where Ground Factor G is 230kN/msq and Soil impact factor Ksi is 0.5.
7. The Charts assume that the post centres are equally spaced on sign assemblies with 2 or more posts.
8. On signs requiring illumination in accordance with 'The Traffic Signs Regulations and General Directions 2002', large base posts are required as per Drawing HST/1200/002.
9. Non-illuminated signs requiring 2 or more posts should be erected in socketed foundations as per Drawing No HST/1200/002.
10. For signs on 2 or more posts where it is impractical to use individual post foundations then a continuous foundation should be used as per Drawing No HST/1200/003.

### HOW TO USE CHARTS HST - 1200-004 to 007

Design the sign faces required for the assembly (example Fig1)

Fig1



### CALCULATE THE HEIGHT OF ALL THE SIGNS ON THE POST

$$H_s = \text{Height of Sign A} + \text{Height of Sign B (Including the gap between signs)}$$

$$= 900\text{mm} + 300\text{mm}$$

$$= 1200\text{mm} = 1.2\text{m}$$

(If there is just one sign on the post, Hs = height of the one sign)

### DETERMINE THE CENTROID

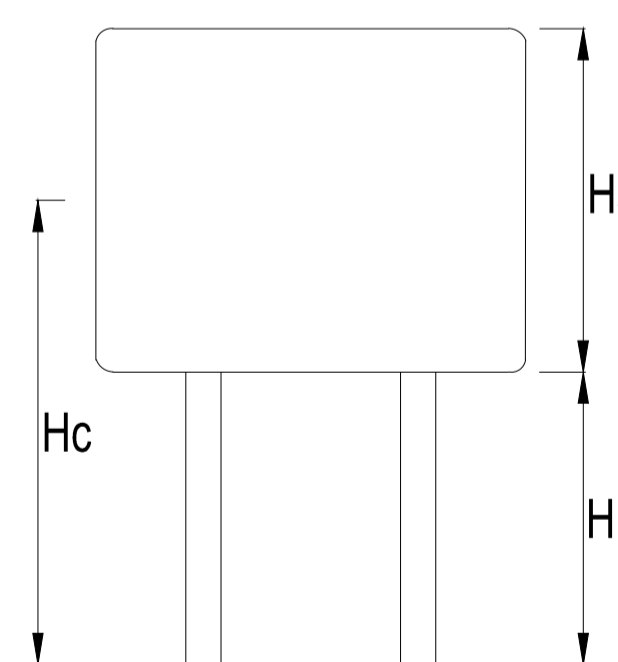
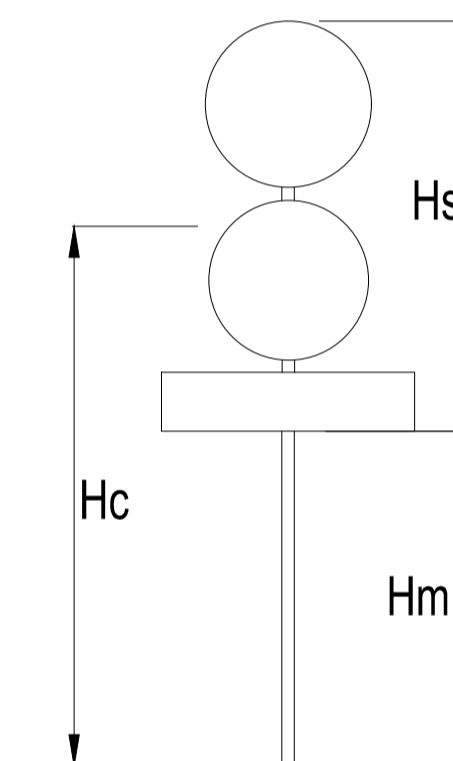
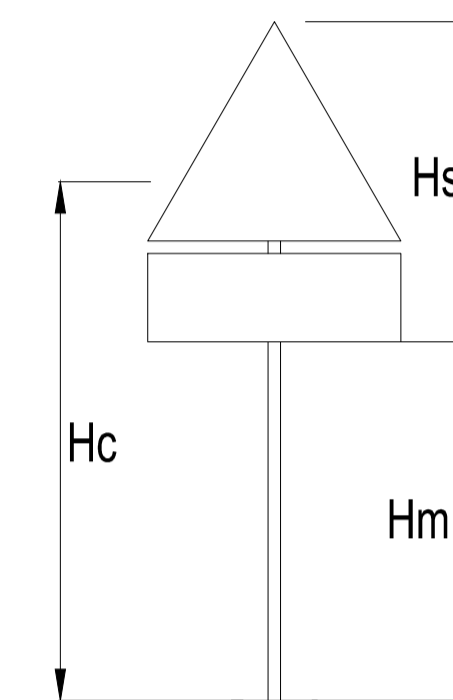
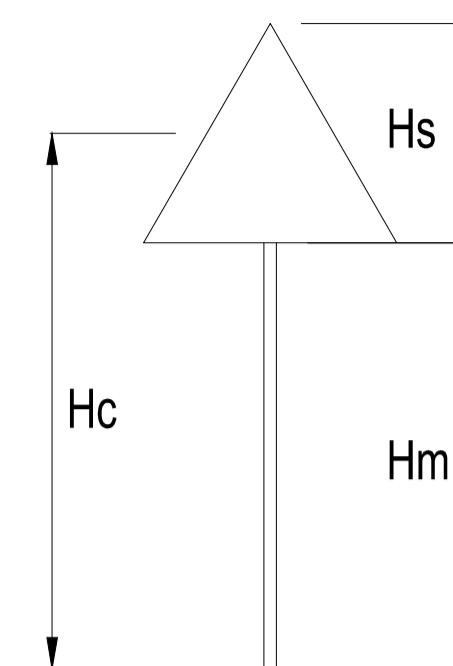
$$\text{Height to Centroids} = \frac{\text{Mounting Height} + H_s}{2}$$

$$= \frac{2.2\text{m} + 1.2\text{m}}{2} = 2.8\text{m}$$

Using the Chart on Drawing No MHA 1200/502 and the appropriate row and column, determine post size alternatives.

From the Chart you have a choice of:-  
1 x 114mm diameter post or 2 x 76 diameter posts

OR  
if it is an illuminated sign one 89mm large base post



Notes

A	Various drawing revisions	AS	RC	DOK	06/21
	Description	Dwn	Chk	App	Date

IWP No.					N/A				
	CAD	Drawn	Checked	Approved	Project Title				
Initials	PB	PB	ADS	PW	HCC STANDARD DETAIL DRAWINGS				
Date	01/10	04/10	04/10	04/10	Drawing Title				
Sht No.	1 OF 1				TRAFFIC SIGNS NOTES				
Scales	NTS								

Drg. No.	HST-1200-0001		Rev.	A
Project Title				
HCC STANDARD DETAIL DRAWINGS				
Drawing Title				
TRAFFIC SIGNS NOTES				

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