

undamaged condition.

2. Signs manufactured with Class 1 sheeting shall be packaged in accordance with the retro-reflective sheeting manufacturer's recommendations incorporating interleaves of thin foam sheeting. Signs manufactured with Class 2 retro-reflective sheeting shall be packaged for delivery interleaved with the backing sheet of the retro-reflective sheeting used.

3. Unbraced signs as specified in Clause 601.07.01 shall be packaged in groups not exceeding 10 signs. Each package of signs shall contain signs of the same type with the quantity and description of the signs marked on each package.

4. Braced signs shall be packed face to face in packs of two. The two-sign packs shall be packed in groups not exceeding 10 packs supported by timber framing for protection during transportation.

5. The packaged signs shall contain a label with the sheeting manufacturer's recommendations for handling and storage and shall be marked "KEEP DRY" on both faces with letters exceeding 100mm in height.

6. Signs shall be transported and stored in accordance with Clauses 601.61.

601.21 – 601.25 NOT USED

SIGN SUPPORTS

601.26 GENERAL

1. Sign support dimensions shall be in accordance with Drawing Nos 8720-657-6, 0330-1686, 0330-1687 and 0330-1688 and the post schedules shown on the sign drawings.

2. The gauge of rectangular hollow section (RHS) sign standards shall be as specified in Annexure 601D.

3. Flexible and removable sign posts may be used for single post signs in special circumstances. The flexible sign post and removable sign posts are defined as:

(a) **Flexible Sign Posts:** A sign post which deflects when impacted by a vehicle and then returns to a vertical position, without maintenance intervention. Flexible sign posts may only be used for the installation of signs that are mounted near the nose of a traffic island. The height from the ground to the top of the sign shall not exceed 1.2m. This application may typically be applied to the following signs:

Flexible Sign Post

a) R2-3(L or R) Keep Left/Keep Right

b) R2-5 (No U-Turn)

- c) R2-15 (U-Turn Permitted)
- d) MR-GT-15 (L or R) Cars Only
- e) MR-HM-12 (Divisional Marker)

The types of flexible sign post used shall be as specified in Annexure 601G.

(b) **Removable Sign Posts:** A removable sign post which enables the post to be removed and reinstated from its base without damaging either the base or post, with specially designed tools or a lock and key arrangement. Removable sign posts shall be used, where specified, for all removable signs on High-Wide Load corridor routes. The type of removable sign post used shall be as specified in Annexure 601G.

Removable Sign Posts

601.27 MATERIALS

601.27.01 NORMAL (NON-FLEXIBLE) POSTS

1. Materials used for the fabrication of the posts shall be of the following:

- a) Low carbon electric resistance welded (ERW) steel tube in accordance with AS 1450.
- b) Galvanised steel strip in accordance with AS 1397.
- c) Universal beams shall be BHP Grade 300+ in accordance with AS/NZS 3679.1.
- d) Base plates for breakaway posts shall be Grade 350 in accordance with AS/NZS 3678.
- e) Fuse plates for breakaway posts shall be Bisalloy 80.
- f) Ground support stands for box edge section signs shall be 350 MPa mild steel box section and rod.

2. The posts shall be saw cut not sheared. Holes may be drilled or punched. No deformation to posts shall result from cutting, drilling or punching.

3. Drilling holes in the field on galvanised or powder coated posts shall be kept to a minimum. If it is required to drill any holes in the field, the drilled holes shall be coated with suitable galvanising paint, prior to attaching the sign.

601.27.02 FLEXIBLE POSTS

1. Flexible signposts shall be made with material, which provide the properties of strength, flexibility, impact resistance and durability required. The material used shall not shatter into multiple parts on impact and after being struck signposts shall not project a dangerous

ANNEXURE 601G

MRWA APPROVED ALTERNATIVE SIGN POSTS AND POST FIXING DEVICES

1. Catesby Sign Fixing Bracket
2. SAB POP
3. Flexible Sign Post – Dura-Post (Aust.) Pty Ltd
4. Flexible Sign Post (Springy Post) – JMB Manufacturing Pty Ltd
5. Removable Sign Post (Taper-lock) - Ausposts

