Two methods of manufacture are possible for the above connection components:
(i) strip may be cut and holed by the fabricator's normal methods.
(ii) strip may be pre-holed in long lengths and subsequently cropped to individual component lengths.


FIGURE 4. 180X10 FLAT BAR OR PLATE COMPONENT


FIGURE 3. 90X8 OR 90X10 FLAT BAR OR PLATE COMPONENT

FIGURE 5. 200 OR 150X10 FLAT BAR OR PLATE COMPONENT


Typical component


FIGURE 6. 100X100X8 EA ANGLE COMPONENT


FIGURE 7. 150X100X10 UA ANGLE COMPONENT

THE THREE TYPES OF SUPPORTED MEMBER (BEAM) END PREPARATION ARE SHOWN IN FIGURE 8.

(a) Square End, Uncoped

(b) Single Web Coped End, SWC

(c) Double Web Coped End, DWC

NOTE: ALL BEAM END PREPARATIONS MAY HAVE A SINGLE LINE OF BOLTS IN LIEU OF THE TWO LINES SHOWN ABOVE. *A $=70$ WHERE NOTED IN TABLE 3.

BOLTING LAYOUT USES THE FOLLOWING PARAMETERS:
(a) dimension $\mathrm{a}=100 \mathrm{~mm}$ from top of beam to centre of first hole, except that for beam depths less than 240 mm a $=70 \mathrm{~mm}$ is used;
(b) edge distance from a coped web to a hole of 35mm;
(c) end distance for the bolts in the beam web of 35 mm , so as to permit all methods of beam cutting;
(d) all bolt holes are 22 mm diameter for M20 bolts;
(e) a bolt pitch of 70 mm .

The bolt pitch of 70 mm , combined with the ' $a$ ' dimension of 100 mm maximises the number of bolts that can be accommodated in a beam web while still allowing sufficient clearance to enable bolts to be installed.

Using these parameters, the maximum number of bolt rows ( $\mathrm{n}_{\text {max }}$ ) that can be accommodated on a beam web are given in Table 3 for:
(i) Universal beam sections;
(ii) Universal column sections down to 200UC;
(iii) Hot rolled channel sections down to 200 mm deep.

TABLE 3
VALUES OF $\mathrm{N}_{\text {MAX }}$
$\mathrm{A}=100$ EXCEPT $\mathrm{A}=70$ WHERE $*$ SHOWN, EDC $=35, \mathrm{P}=70$ (FIG. 8)

| Section (UB) | $n_{\text {max }}$ on beam web | Section (UC) | $n_{\text {max }}$ on beam web | Section (Channel) | $n_{\text {max }}$ on beam web |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 610UB | 7 | 310UC | 3 | $380 \times 100$ | 4 |
| 530UB | 6 | 250UC | 2 | $300 \times 90$ | 3 |
| 460UB | 5 | 200UC | 2* | $250 \times 90$ | 2 |
| 410UB | 4 |  |  | $230 \times 75$ | 2* |
| 360UB | 3 |  |  | $200 \times 75$ | 2* |
| 310UB | 3 |  |  |  |  |
| 250UB | 2 |  |  |  |  |
| 200UB | 2* |  |  |  |  |

