$$e \le 1.6 \frac{M_{\text{p,link}}}{V_{\text{p,link}}} \qquad (\text{if } R < 0.3)$$
$$e \le 1.6 \frac{M_{\text{p,link}}}{V_{\text{p,link}}} (1.15 - 0.5R) \qquad (\text{if } R \ge 0.3) \tag{4.16}$$

where

$$R = \frac{N_{\text{Ed}}\, t_{\text{w}} (d - 2t_{\text{f}})}{V_{\text{Ed}}\, A} \tag{4.17}$$

in which A is the gross area of the link.

4.5.2.7 – To achieve a global dissipative behaviour of the structure, it should be checked that the individual values of the ratios Ω_i defined in **4.5.2.1** do not exceed the minimum value Ω resulting from **4.5.2.1** by more than 25% of this minimum value.

4.5.2.8 – When equal moments develop simultaneously at both ends of the link, links may be classified according to the length e. For I sections, the categories are:

$$\begin{aligned} &\text{Short links:} \quad e \le e_{\text{s}} = 1.6 \frac{M_{\text{p,link}}}{V_{\text{p,link}}} \\ &\text{Long links:} \quad e > e_{\text{L}} = 3.0 \frac{M_{\text{p,link}}}{V_{\text{p,link}}} \\ &\text{Intermediate links:} \quad e_{\text{s}} < e < e_{\text{L}} \end{aligned} \tag{4.18}$$

4.5.2.9 – When only one plastic hinge develops at one end of the link, the value of the length e defines the categories of the links. For I sections the categories are:

$$\begin{aligned} &\text{Short links:} \quad e \le e_{\text{s}} = 0.8(1+\alpha) \frac{M_{\text{p,link}}}{V_{\text{p,link}}} \\ &\text{Long links:} \quad e > e_{\text{L}} = 1.5(1+\alpha) \frac{M_{\text{p,link}}}{V_{\text{p,link}}} \\ &\text{Intermediate links:} \quad e_{\text{s}} < e < e_{\text{L}} \end{aligned} \tag{4.19}$$

where α is the ratio of the smaller bending moments $M_{\text{Ed,A}}$ at one end of the link in the seismic design situation, to the greater bending moments $M_{\text{Ed,B}}$ at the end where the plastic hinge develops, both moments being taken as absolute values.

4.5.2.10 – The link rotation angle θ_p between the link and the element outside of the link as defined in **4.3.4.3** should be consistent with global deformations. It should not exceed the following values:

$$\begin{aligned} &\text{Short links:} \quad \theta_{\text{p}} \le \theta_{\text{pR}} = 0.08 \text{ radian} \\ &\text{Long links:} \quad \theta_{\text{p}} \le \theta_{\text{pR}} = 0.02 \text{ radian} \\ &\text{Intermediate links:} \quad \theta_{\text{p}} \le \theta_{\text{pR}} = \text{by interpolation} \end{aligned} \tag{4.20}$$