

ANNEX B

Weightings and formula for calculating the **Modified Flows** (P_{mod} and V_{mod}) and **PV² Adjustment Factor (AF)**

To calculate the **Modified Pedestrian Flow (P_{mod})** use the following weightings for vulnerable road user groups:

Children (<16yrs) x 4, Elderly (>65yrs) x 4, Disabled / Blind x 6, Adult x 1

To calculate the **Modified Vehicle Flow (V_{mod})** use the following weightings:

HGV x 2.5, LGV / Bus x 2, Car / Minivan x 1, Motorbike x 0.75, Pedal Cycle x 0.5

Accident factor (A) = $1 + N/10$ where N is number of ped casualties in previous 3 year period

To calculate the **Crossing Delay Factor (D)** use the following factors:

<20 sec = 1, 20-40 sec = 1.2, 41-60 sec = 1.4, 60+ sec = 1.6

To calculate the **Road Width Factor (W)** use the following values:

Single carriageway: Width<7.3m use 1, Width>7.3m use Width/7.3,

Dual carriageway: $\frac{1}{2}$ Width<7.3m use 1, $\frac{1}{2}$ Width>7.3m use $\frac{1}{2}$ Width/7.3

To calculate the **Speed Factor (S)** use the following values (use the 85th percentile speeds):

< 20 mph = 0.8, 21-30 mph = 1, 31-35 mph = 1.1, 36-40 mph = 1.2, 41-45 mph = 1.3, 46-50 mph = 1.4

To calculate the **Proximity to Pedestrian Trip Attractors Factor (T)** use the following:

If not near a school, healthcare site, leisure facility, old peoples' home or employment site use 1, if near one of the above use 1.1, if near two of the above use 1.2, if near 3+ of the above use 1.3

$$\text{PV}^2 \text{ Adjustment Factor (AF)} = A \times D \times W \times S \times T$$

$$\text{Adjusted PV}^2 (\text{APV}^2) = P_{\text{mod}} \times (V_{\text{mod}})^2 \times \text{AF}$$