

Concrete Step Barrier Design Guidance

Selection of CSB Profiles

DRAWINGS CSB/000



Design Guidance Notes

The factors influencing the choice of step barrier type and profile include:

- Available central reserve width
- Level difference between carriageways and/or superelevation
- Obstructions in central reserve
- Requirement for lighting columns, signs, etc
- Cost
- Use standard profile CSB wherever possible
- Where possible, accommodate level difference between carriageways in the central reserve surfacing
- For temporary level differences across the barrier of ≤ 100 mm, which cannot be accommodated within the central reserve, use standard profile CSB with increased base depth
- Where a level difference between carriageways exists, a dual CSB or a variable profile barrier (VCSB) should be used.

Figure 1 (overleaf) summarises the principal CSB profile options for different applications.

The following are recommendations for the cost-effective selection of Concrete Step Barrier profiles:

* For UK use, refer to TD19¹ Fig 3-3. Minimum distance based on 1.2 m set-back (TD27) and W2 Working Width Class of CSB. Lower minimum values may be attained with reduced set-back and/or Departures from Standard. Appropriate national standard to be adopted elsewhere.

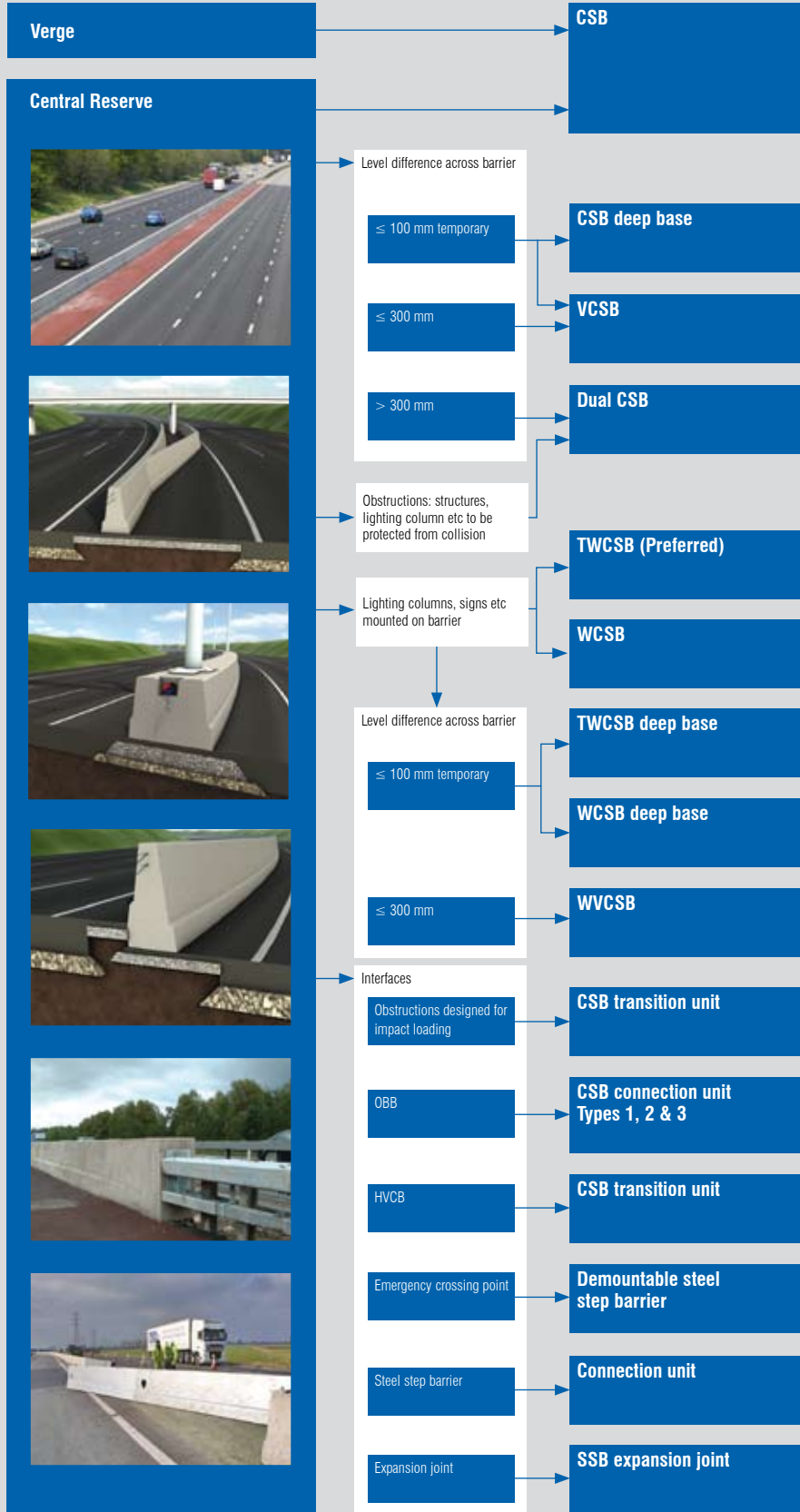
	Profile	Minimum distance between trafficked edges (m)*	Notes
Minimum Spatial requirements for CSB in central reserve	CSB	2.942	
	WCSB	3.342	
	VCSB	2.985	Assumes 300 mm level difference
	WVCSB	3.385	Assumes 300 mm level difference
	Dual CSB	3.484	See DS/CSB/506 for details

Table 1: Minimum central reserve width required for each profile

¹TD 19 Requirements for Road Restraint Systems

²TD 27 Cross-Sections and Headroom

Figure 1



Principal CSB profiles