

Concrete Step Barrier Design Guidance

Data Sheet Guide to Abbreviations

Introduction

These data sheets have been produced by Britpave to complement the suite of drawings for Concrete Step Barrier and its Ancillary Products. The data sheets provide design guidance and advice for use of CSB.

The Concrete Step Barrier products illustrated in the drawings and described in the specification and these data sheets conform to BS EN 1317¹ and/or Highways Agency particular requirements. The Design Organisation is responsible for the use of the drawings, specification and data sheets, ensuring that the principles laid out are interpreted and applied having regard to the particular conditions on a specific project.

Until implementation of the Sector Accreditation Scheme, the minimum quality standard for the Design Organisation and the CSB installer is third party certification to ISO9001:² by a UKAS accredited certification body. The installer must hold a Britpave licence.

The drawings listed in the index table, and referred to on the data sheets are subject to revision. Drawing references are included to assist the user. The user should refer to the full drawing lists on [CSB/000](#) and [SSB/000](#) to identify all relevant drawings and ensure that they are in possession of the latest revision.

Standards referenced in these data sheets are applicable for the UK. Equivalent standards when used elsewhere should be adopted.

Abbreviations used in these Data Sheets:

AADT	Annual Average Daily Traffic
AIS	Abbreviated Injury Scale
ASI	Acceleration Severity Index
CSB	Concrete Step Barrier
DIN	Deutsches Institut für Normung
DSSB	Demountable Steel Step Barrier
Dual CSB	Dual Concrete Step Barrier
ECE	Economic Commission for Europe
ECP	Emergency Crossing Point
EuroSID	European Side Impact Dummy
FCL	Fixing Centre Ltd
HA	Highways Agency
HIC	Head Injury Criteria
HVCB	Higher Vertical Concrete Barrier
IAN	Interim Advice Note (Highways Agency)
ISO	International Organization for Standardization
L.I.E.R.	Laboratoire d'essais Inrets Equipments de la Route
MCP	Maintenance Crossing Point and Maintenance Access
MIRA	Motor Industry Research Association
NCR	Non Conformance Report
NPSBS	Non Proprietary Safety Barrier Systems (Highways Agency)
OBB	Open Box Beam (steel)
OIV	Occupant Impact Velocity
PHD	Post-impact Head Deceleration

SHW	Specifications for Highway Works
SSB	Steel Step Barrier
SSD	Safety Stopping Distance
SWC	Surface Water Channel
THIV	Theoretical Head Impact Velocity
TWCSB	Trough Wide Concrete Step Barrier
VCB	Vertical Concrete Barrier
VCSB	Variable Concrete Step Barrier
VRS	Vehicle Restraint System
WCSB	Wide Concrete Step Barrier
WVCSB	Wide Variable Concrete Step Barrier

¹ BS EN 1317-2: Road Restraint Systems
Part 2: Performance classes, impact test acceptance criteria and
test methods for safety barriers
² ISO 9613 Acoustics - Attenuation of sound during propagation
outdoors