

Abbreviations

Units

ft	foot
ft ² or sq ft	square feet
ft ³ or cu ft	cubic feet
in.	inch
in. ² or sq in.	square inch
in. ³ or cu in.	cubic inches
lb	pound
kip	kilo pounds (1000 lb)
t	ton (2000 lb)
klf	kips per lineal foot
kli	kips per lineal inch
ksf	kips per square foot
ksi	kips per square inch
mi	mile (5,280 ft)
mph	miles per hour
pcf	pounds per cubic foot
plf	pounds per lineal foot
pli	pounds per lineal inch

psf pounds per square foot

psi pounds per square inch

Loads

D or DL dead load

E earthquake load

L or LL live load

L_r roof live load

R rain load

S snow load

W wind load

Organizations

AASHTO American Association of State Highway and Transportation Officials

ACI American Concrete Institute

AISC American Institute of Steel Construction

AISI American Iron and Steel Institute

ANSI American National Standards Institute

AREMA American Railway Engineering and Maintenance-of-Way Association

ASCE American Society of Civil Engineers

ASTM American Society for Testing and Materials

AWS American Welding Society

ICBO	International Conference of Building Officials
NFPA	National Fire Protection Association
NRCA	National Roofing Contractors Association
RCSC	Research Council on Structural Connections
SDI	Steel Deck Institute
SJI	Steel Joist Institute
SSRC	Structural Stability Research Council
WRC	Welding Research Council

Specifications, Manuals, etc.

ASCES	ASCE Standard 7: Minimum Design Loads for Buildings and Other Structures
ASDS	Allowable Stress Design Specification for Structural Steel Buildings, AISC
LRFDS	Load and Resistance Factor Design Specification for Structural Steel Buildings, AISC
LRFDM	Manual of Steel Construction: Load and Resistance Factor Design, AISC
LRFDC	Commentary, LRFDS
RCSCS	LRFD Specification for Structural Joints Using ASTM A325 or A490 Bolts, RCSC

Miscellaneous

C	channel shape
FLB	flange local buckling
HSS	hollow structural section
I	I-shape
L	angle shape
LLBB	long legs back to back
LSL	long-slotted hole
LTB	lateral-torsional buckling
M	Miscellaneous I-shape
MC	Miscellaneous channel shape
MT	Miscellaneous tee shape
OVS	oversized hole
PL	plate
S	standard beam shape
SAW	submerged arc welding process
SLBB	short legs back to back
SMAW	shielded metal arc welding process
SSL	short-slotted hole
STD	standard hole
T	tee shape
W	wide flange shape
WLB	web local buckling

WT structural tee cut from W-shape