

COMMON ENGINEERING ABBREVIATIONS

Abbreviation	Usually Means...	Disipline
[R]	Rough-in only	Plumbing
A.C.	Asphalt Concrete	Civil
AC	Alternate Current	Electrical
ACCA	Air Conditioning Contractors of America	General
ACGIH	American Conference of Governmental Industrial Hygienists	General
ACU-1	Air Conditioning Unit No.0	HVAC
AD	Access Door	HVAC
AD	Area Drain	Plumbing
ADA	Americans with Disabilities Act	General
AFF	Above Finished Floor	General
AGA	American Gas Association	General
AHU-1	Air Handling Unit No.1	HVAC
AI	Analog In	HVAC
AIA	American Institute of Architects	General
AMCA	Air Movement and Control Association	General
AMP	Ampere	Electrical
ANSI	American National Standards Institute	General
AO	Analog Out	HVAC
API	American Petroleum Institute	General
APTA	American Public Transportation Association	General
ARI	Air-Conditioning and Refrigeration Institute	General
ASD	Allowable Stress Design	General
ASHRAE	American Society of Heating, Refrigerating and Air-Conditioning Engineers	General
ASME	American Society of Mechanical Engineers	General
AST	Above-ground Storage Tank	HVAC
ASTM	American Society for Testing and Materials	General
ATC	Automatic Temperature Controls	HVAC
ATS	Automated Temperature System (Control System)	HVAC
ATS	Automatic Transfer Switch (Electrical System)	Electrical
AWS	American Welding Society	General
B.O.S	Bottom Of Steel	General
BACNet	Building Automation and Control Networks	HVAC
BAMCS	Building Automation Management Control System	HVAC
BAS	Building Automation System	HVAC
BEP	Certified Business Energy Professional (AEE)	Energy
BESA	Building Energy Simulation Analyst (AEE)	Energy
BEST	Building Energy & Sustainability Technician (AEE)	Energy
BFP	Backflow Preventer	Plumbing
BHP	Brake Horse Power	General
BOD	Bottom of Duct	General
BS	Bar Sink	Plumbing
BSA	New York City Board of Standards and Appeals	General

BTU	British Thermal Unit	HVAC
C.O.	Clean Out	Plumbing
C/C	Center to Center	General
Calc	Calculation	General
CBCP	Certified Building Commissioning Professional (AEE)	Energy
CC	Cooling Coil	HVAC
CD	Contract Documents/Drawings or Construction Documents/Drawings	General
CDD	Cooling Degree Day	HVAC
CEA	Certified Energy Auditor (AEE)	Energy
CEM	Certified Energy Manager (AEE)	Energy
CEP	Certified Energy Procurement Professional (AEE)	Energy
CFD	Computational Fluid Dynamic	General
CFM	Cubic Feet Per Minute	General
CGD	Certified Geexchange Designer (AEE)	Energy
CHW	Chilled Water	HVAC
CHWR	Chilled Water Return	HVAC
CHWS	Chilled Water Supply	HVAC
CI	Cast Iron	Plumbing
CLEP	Certified Lighting Efficiency Professional (AEE)	Energy
CMVP	Certified Measurement & Verification Professional (AEE)	Energy
CO2	Carbon Dioxide	HVAC
CPQ	Certified Power Quality Professional (AEE)	Energy
CRM	Certified Carbon & GHG Reduction Manager (AEE)	Energy
CS	Condenser Water	General
CSDP	Certified Sustainable Development Professional (AEE)	Energy
CW	Condenser Water or City Water	HVAC
CWR	Condenser Water Return	HVAC
CWS	Condenser Water Supply	HVAC
CY	Cubic Yard	Plumbing
D.G.A.B.C.	Dense Graded Aggregate Base Course	Civil
DB	Dry Bulb (Temperature)	HVAC
DC	Direct Current	Electrical
DDC	Direct Digital Control	HVAC
DEG	Degree	Plumbing
DF	Drinking Fountain	Plumbing
DGCP	Distributed Generation Certified Professional (AEE)	Energy
DGP	Data Gathering Panel	HVAC
DHW	Domestic Hot Water	Plumbing
DI	Digital In	HVAC
DIA	Diameter	General
DO	Digital Out	HVAC
DOAS	Dedicated Outdoor Air System	HVAC
DOE	Department of Energy	General
DOT	Department of Transportation	General
DW	Dishwasher	Plumbing
DWDI	Double Width Double Inlet (Fan)	HVAC
DWG	Drawing	General

DWV	Drain, Waster, and Vent	Plumbing
DX	Direct-expansion (Cooling System)	HVAC
EBCP	Existing Building Commissioning Professional (AEE)	General
ECM	Energy Conservation Measures	Energy
EER	Energy-Efficiency Ratio	Energy
EF	Exhaust Fan	HVAC
EIT	Engineer In Training	General
ELEV	Elevator or Elevation	General
EMR	Elevator Machine Room	General
EMS	Energy Management System	HVAC
EMT	Electrical Metallic Tubing	Electrical
EOR	Engineer Of Record	General
EPA	Environmental Protection Agency	General
ESC	Esclator	General
ESCO	Energy Services Company	Energy
ESP	External Static Pressure	HVAC
EUI	Energy Use Intensity (kBtu/SF/yr)	Energy
EWT	Entering Water Temperature	HVAC
EXP.	Expansion	General
F	Degree Frahenheit	Plumbing
F.D.	Floor Drain	Plumbing
FAP	Fire Alarm Panel	Fire Protection
FAS	Fire Alarm System	Fire Protection
FD	Fire Damper	HVAC
FEMP	Federal Energy Management Program	General
FH	Fire Hydrant	Plumbing
FLA	Full Load Amps	Electrical
FMA	Factor Manufacture Approval	General
FPM	Feet Per Minute	General
FPS	Feet per second	Plumbing
FSD	Fire Smoke Damper	HVAC
FT	Feet	Plumbing
GAL	Gallon	Plumbing
GALV.	Galvanized	General
GBCI	Green Building Certification Institute	General
GBE	Certified Green Building Engineer (AEE)	General
GOHP	Government Operator of High Performance Buildings (AEE)	General
GPM	Gallons Per Minute	General
GSA	General Services Administration	General
HAP	Hourly Analysis Program from Carrier	HVAC
HB	Hose Bibb	Plumbing
HC	Heating Coil	HVAC
HDD	Heating Degree Day	HVAC
HEPA	High-Efficiency Particulate Filter (Air Filter)	HVAC
HID	High Intensity Discharge (Lights)	Electrical
HMI	Human Machine Interface	General
HP	Horsepower	Plumbing

HRS	Hours	Plumbing
HU	Hub Up	Plumbing
HV	Hose Valve	Plumbing
HV-1	Heating and Ventilating Unit No.1	HVAC
HW	Hot Water	Plumbing
HWC	Hot Water Circulation	Plumbing
HWR	Hot Water Return	Plumbing
HX	Heat Exchanger	HVAC
I/O	Input / Output	HVAC
ID	Inside Diameter	Plumbing
IEEE	Institute of Electrical and Electronic Engineers	General
IN.	Inches	Plumbing
INV	Invert	Plumbing
IPLV	Integrated Part Load Value	HVAC
IPMVP	International Performance Measurement and Verification Protocol	HVAC
JS	Janitor Sink	Plumbing
K.S.	Kitchen Sink	Plumbing
KIT	Kitchen	Plumbing
kWH	Kilowatt Hour (Electricity Unit)	Electrical
LAT	Leaving Air Temperature	HVAC
LAV	Lavatory	Plumbing
LBS	Pounds	General
LCCA	Life Cycle Cost Analysis	Energy
LDR	Leader	Plumbing
LEED	Leadership in Energy and Environmental Design	General
LEED-AP	Leadership in Energy and Environmental Design - Accredited Professional	General
LF	Linear Foot	General
LWT	Leaving Water Temperature	HVAC
M&V	Measurement and Verification	Energy
MB	Mop Basin	Plumbing
MBH	Thousand BTU per Hour	HVAC
MCA	Minimum Circuit Amps	Electrical
MCC	Motor Control Center	General
MEA#	Mechanical Equipment Application Number	General
MEA#	Materials and Equipment Acceptance (NYC)	General
MER	Mechanical Equipment Room	General
MERV	Minimum Efficiency Reporting Value (Air Filter)	HVAC
MH	Man Hole	Plumbing
MNS	Mass Notification System (Fire Alarm System)	Fire Protection
MSDS	Material Safety Data Sheet	General
NC	Normally Closed	General
NEBB	National Environmental Balancing Bureau	General
NEMA	National Electrical Manufacturers Association	General
NFPA	National Fire Protection Association	General
NIC	Not In Contract	General
NIOSH	National Institute of Occupational Safety and Health	General
NIST	National Institute of Standards and Technology	General

NJDEPE	New Jersey Department of Environmental Protection and Energy	General
NO	Normally Open	General
NPT	National Pipe Thread	General
NPV	Net Present Value	Energy
O&P	Overhead & Profit	General
OA	Outside Air	HVAC
OAI	Outside Air Intake	HVAC
OD	Outside Diameter	Plumbing
OEM	Original Equipment Manufacturer	General
OPD	Open Drip Proof (Motor)	HVAC
OS&Y	Outside screw and yoke valve	Plumbing
OSHA	Occupational Safety and Health Administration	General
P&T	Pressure and Temperature Relief Valve	Plumbing
P.E.	Professional Engineer	General
PD	Pressure Drop	HVAC
PEI	Petroleum Equipment Institute	General
PIV	Post Indicator Valve	Plumbing
PLC	Programmable Logic Controller	HVAC
PLF.	Pounds per Linear Foot	General
POAR	Preliminary Opportunity Assessment Report	Energy
PRV	Pressure Reducing Valve	HVAC
PRV	Pressure-Reducing Valve	Plumbing
PSI	Pounds per square inch	General
PV	Photovoltaic (Solar Panel)	HVAC
PVC	Polyvinylchloride	General
R12, R22	Refrigerant (12, 22)	HVAC
RCP	Reinforced concrete pipe	Plumbing
RD	Roof Drain	Plumbing
REA	Residential Energy Auditor (AEE)	Energy
RED.	Reducer	Plumbing
REP	Renewable Energy Professional (AEE)	Energy
RFI	Request For Information	General
RFP	Request For Proposal	General
RFQ	Request For Quote	General
RL	Roof Drain Leader	Plumbing
RLA	Running Load Amps	Electrical
ROI	Return On Investment	Energy
RPM	Revolutions Per Minute	HVAC
RTD	Resistance Temperature Detector (Thermostat)	HVAC
RTD	Resistive Thermal Devices (Temp. Sensor)	HVAC
RTU	Rooftop Unit	HVAC
S	Sink	Plumbing
S.S.	Stainless Steel	General
SA	Shock Absorber	Plumbing
SAN	Sanitary	Plumbing
SC	Sill Cock	Plumbing
SCADA	Supervisory Control and Data Acquisition	HVAC

SD	Smoke Detector or Smoke Damper	HVAC
SEER	Seasonal Energy-Efficiency Ratio	HVAC
SF	Square Foot	Plumbing
SH	Shower	Plumbing
SMACNA	Sheet Metal and Air-Conditioning Contractors' National Association	HVAC
SP	Static Pressure	HVAC
SPB or SP	Simple Payback	General
SPDT	Single Pole Double Through	Electrical
SPST	Single-Pole, Single-Throw (signal)	Electrical
SS	Stainless Steel	General
SS	Service Sink	Plumbing
SSPC	Steel Structures Painting Council	General
SV	Service Weight	Plumbing
T.O.S.	Top of Steel	General
TAB	Testing and Balancing	HVAC
TDH	Total Dynamic Head	HVAC
TEAO	Totally Enclosed Air Over (motor)	HVAC
TEFC	Totally Enclosed Fan Cooled	HVAC
TEMP.	Temperature	General
TSP	Total Static Pressure	HVAC
T-STAT	Thermstat	HVAC
Tub	Bathtub	Plumbing
UI	Universal Input	HVAC
UL	Underwriters Laboratories Inc.	General
UO	Universal Output	HVAC
UR	Urinal	Plumbing
USGBC	U.S. Green Building Council	General
UST	Underground Storage Tank	General
V	Vent	Plumbing
V.I.F.	Verify in Field	General
VAC	Volt AC	Electrical
VAV	Variable Air Volume	HVAC
VB	Bacuum Breaker	Plumbing
VC	Vitrified Clay	Plumbing
VE	Value Engineering	General
VFD	Variable Frequency Drive	HVAC
VSD	Variable Speed Drive	HVAC
VTR	Vent Through Roof	Plumbing
W.C	Water Closet	Plumbing
WB	Wet Bulb	HVAC
WBS	Work Breakdown Structure	General
WCO	Wall Cleanout	Plumbing
WG	Water Gauge	HVAC
WH	Wall Hydrant	Plumbing
WHA	Water Hammer Arrestor	Plumbing
WMS	Wire Mesh Screen	General
W.O.	Work Order	Contract

WSA	Wire Size Amps	Electrical
XH	Extra Heavy	Plumbing

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