

PORCELAIN LINE POST INSULATORS — ANSI 57 SERIES

Solid-Core C-130 Porcelain · Tie Top · Clamp Top · Gain Base · 15 kV – 69 kV · KEMA Type Tested



PRODUCT OVERVIEW

Vuulcan ANSI 57 series line post insulators are wet-process solid-core C-130 high-alumina porcelain for overhead distribution and sub-transmission lines from 15 kV to 69 kV. Three mounting configurations — tie top (57-1 to 57-6), clamp top (57-11 to 57-26), and gain base (57-31 to 57-36) — cover all standard pole-top arrangements. Also manufactured to IEC 60383 and AS 2947.2. 100% ultrasonic tested. KEMA type-tested. Hot-dip galvanized steel hardware throughout.

KEY FEATURES

- ✓ C-130 high-alumina solid-core porcelain — zero puncture risk
- ✓ Three configurations: Tie Top · Clamp Top · Gain Base
- ✓ Classes 57-1 through 57-6 (15 kV – 69 kV)
- ✓ M&E 12.5 kN standard across all classes
- ✓ 100% ultrasonic tested solid core
- ✓ Hot-dip galvanized hardware ≥ 86 µm per ISO 1461
- ✓ KEMA type tested · DNV ISO 9001 · CRCC certified

STANDARD SERIES — TIE TOP (57-1S/L TO 57-6S/L) · ANSI C29.7

CLASS	CREEPAGE (MM)	DRY ARC (MM)	M&E (KN)	DRY F/O (KV)	WET F/O (KV)	IMP.+ (KV)	IMP.- (KV)	WT. (KG)
57-1S / 57-1L	356	165	12.5	70	50	120	155	5.0
57-2S / 57-2L	559	241	12.5	100	70	160	205	9.8
57-3S / 57-3L	737	311	12.5	125	95	200	260	12.0
57-4S / 57-4L	1,015	368	12.5	140	110	230	340	16.0
57-5S / 57-5L	1,145	438	12.5	160	130	265	380	18.0
57-6S / 57-6L	1,364	489	12.5	180	150	300	—	20.5

S = Short Stud · L = Long Stud · All classes rated M&E 12.5 kN · Stud length specified at order

CLAMP TOP SERIES (57-11 TO 57-16 / 57-21 TO 57-26) · ANSI C29.7

CLASS	CREEPAGE (MM)	DRY ARC (MM)	M&E (KN)	DRY F/O (KV)	WET F/O (KV)	IMP.+ (KV)	WT. (KG)
57-11 / 57-21	356	165	12.5	70	50	120	6.8 / 7.5
57-12 / 57-22	559	241	12.5	100	70	160	10.0 / 10.5
57-13 / 57-23	737	311	12.5	125	95	200	11.8 / 12.7
57-14 / 57-24	1,015	368	12.5	140	110	230	15.9 / 16.8
57-15 / 57-25	1,145	438	12.5	160	130	265	18.6 / 19.5
57-16 / 57-26	1,346	489	12.5	180	140	300	— / —

57-1X = Type 1 clamp head · 57-2X = Type 2 clamp head · Higher mechanical security than tie top — preferred for high-vibration spans

MATERIAL SPECIFICATION

COMPONENT	MATERIAL	SPECIFICATION
Body	C-130 Porcelain	Wet-process, kiln-fired 1280 °C. Brown/grey glaze. Zero porosity. 100% ultrasonic tested solid core.
Hardware	Forged Steel, HDG	Hot-dip galvanized. Zinc ≥ 86 µm per ISO 1461 / ASTM A153. ANSI bolt pattern.
Cement	Portland Cement	High-strength alumina bonding. Controlled torque assembly. Weather-resistant seal.

GAIN BASE SERIES (57-31 TO 57-36) · ANSI C29.7

CLASS	CREEPAGE (MM)	M&E (KN)	DRY F/O (KV)	WET F/O (KV)	WT. (KG)	NOTES
57-31	256	12.5	70	50	9.5	15 kV
57-32	559	12.5	100	70	12.5	25 kV
57-33	737	12.5	125	95	15.7	34.5 kV
57-34	1,016	12.5	140	110	18.8	46 kV
57-35	1,143	12.5	160	130	21.5	69 kV
57-36	1,800	12.5	—	—	—	On request ※

※ 57-36: Dry flashover, wet flashover and weight subject to project-specific GA drawing confirmation · Gain base eliminates crossarm cost on compact pole-top designs

IEC 60383 / AS 2947.2 — REPRESENTATIVE MODELS

MODEL	STANDARD	MIN LEAKAGE (MM)	CANTILEVER (KN)	WET F/O (KV)	LIGHTNING BIL (KV)	WT. (KG)
11005	IEC 60383	530	12.5	50	150	9.8
11006	IEC 60383	500	12.5	65	150	9.4
11002	AS 2947.2	565	12.5	50	150	7.5
11007	IEC 60383	610	12.5	50	150	13.3

DIN and SA standard models available on request · Custom creepage per IEC 60815 pollution class available · Contact for project-specific GA drawing

Configuration Guide: **Tie Top** — traditional wire-tie conductor attachment, widest utility base adoption · **Clamp Top** — bolted metal clamp, higher mechanical security, reduced maintenance labour · **Gain Base** — direct pole-top mount, eliminates crossarm, preferred for compact rural designs.

ROUTINE TESTS — PER PRODUCTION BATCH

1	Visual & dimensional inspection (100%)	C29.7 §5	2	Dry power frequency withstand (1 min)	C29.1 §4
3	Wet flashover voltage test	C29.1 §5	4	M&E cantilever load test at 12.5 kN (1 min)	C29.7 §7
5	100% ultrasonic porosity scan — solid core	Mfr. SOP	6	Galvanizing thickness ≥ 86 µm (mag. gauge)	ISO 1461

APPLICABLE STANDARDS & CERTIFICATIONS

PRIMARY STANDARD ANSI C29.7	INTERNATIONAL IEC 60383 · AS 2947.2	QUALITY SYSTEM DNV ISO 9001:2015
TYPE TEST KEMA (Netherlands)	TEST METHODS ANSI C29.1	GALVANIZING ISO 1461 · ASTM A153

ANSI C29.7
IEC 60383
AS 2947.2
DNV ISO 9001
CRCC
KEMA
100% ULTRASONIC

ORDERING INFORMATION

Tie Top: **VLP - 57-3S - TT - STD** Clamp Top: **VLP - 57-13 - CT - STD** Gain Base: **VLP - 57-33 - GB**
VLP = Vuulcan Line Post · **57-X** = ANSI class number · **S/L** = Short / Long stud (Tie Top) · **TT** = Tie Top · **CT** = Clamp Top · **GB** = Gain Base · **IEC/AS** = Alternative standard (specify model number)

Custom creepage, voltage classes, and hardware configurations available. KEMA type-test reports available for all 57 series classes. Routine test reports and material traceability certificates shipped with every order. Third-party inspection (SGS, BV, Intertek) welcome at any production stage. Contact: inquiry@vuulcaninsulators.com · vuulcaninsulators.com

Disclaimer: Information believed accurate but provided without warranty. Specifications subject to change without notice. Users should independently evaluate product suitability. This document does not constitute a contractual obligation. For binding specifications, refer to purchase order confirmation and applicable type-test reports. 57-36 data subject to project-specific GA drawing confirmation.