

ELECTRIC SERVICE INSTALLATION

OVERHEAD CLEARANCES

ABOVE WALKWAY	10'
RESIDENTIAL DRIVEWAY	12'
ROADS AND DRIVES	18'

ROOF CLEARANCES

PITCH < 4/12	8'
PITCH > 4/12	3'

18" IF NOT PASSING MORE
THAN 4' OF OVERHANG
NEC 230-24 EX. 3

DRIP LEGS MUST BE FORMED IN ACCORDANCE
WITH NEC 230-54(F).
NOTE: DISTANCE IS 10' TO BOTTOM NEC 23024(b)

ELECTRICAL RISERS ABOVE 30" MUST BE
ADEQUATELY BRACED

RAINTIGHT METAL FLASHING REQUIRED

1-1/4" STEEL SCHEDULE 40 RISER 100 AMPS MAX.
2" STEEL SCH. 40 RISER OVER 100 AMPS.
CLAMP RISER TO BUILDING

FRONT CLEAR SPACE 30" WIDE, 36" DEEP FRONT
OF SERVICE PANEL. NOTE: PANEL MUST BE
READILY ACCESSIBLE.

ALL BREAKERS SHALL BE CLEARLY & PERMANENTLY
LABELED. ALL UNUSED OPENINGS MUST BE
EFFECTIVELY CLOSED.

GROUNDING OF METAL BOXES AND
EQUIPMENT MUST BE BY MEANS OF METAL
RACEWAY, CABLE ARMOR OR GROUNDING
CONDUCTOR WHICH IS PART OF AN
APPROVED CABLE ASSEMBLY.

DRIVEN GROUND ROD OR UFER
NEC 250-53 (G)

COLD WATER AND GAS PIPING MUST
BE BONDED TO THE SERVICE
EQUIPMENT ENCLOSURE. NEC 250.104
(A)(B)

4'-6" TO 6'-3"
6'-6" MAX TO
MAIN BREAKER

30" CLR

1/2" COPER CLAD 8 FOOT

WIRE TYPES

RHH, RHW, RHW-2, THHN, THHW, THW-2, THWN-2, XHHW-2, SE, USE, USE-2
THWN, THW, XHHW, NEC 310.15(B)(6) GROUNDING CONDUCTOR (NEUTRAL),
SHALL BE WHITE OR GRAY FINISH THE ENTIRE LENGTH.

WIRE SIZES

SERVICE SIZE	SERVICE ENTRANCE CONDUCTORS		GROUNDING AND BONDING	
	COPPER	ALUMINUM	COPPER ONLY GEC *	BONDING
100A	4	2	8	8
125A	2	1/0	8	8
150A	1	2/0	4	4
200A	2/0	4/0	4	4
400A	400	600	1/0	1/0

* WHERE GROUNDING ELECTRODE CONDUCTOR (GEC) IS CONNECTED TO A GROUND ROD, PIPE
OR PLATE ELECTRODE, IT SHALL NOT BE REQUIRED TO BE LARGER THAN 6 AWG COPPER.

NOTE: DWELLING UNITS

1. SWITCH, CIRCUIT BREAKER OR PANEL OF AT LEAST
100 AMPS IS REQUIRED 230.79(c) AS MINIMUM
CAPACITY AS SERVICE EQUIPMENT. RAIN TIGHT (NEMA
3R) REQUIRED UNLESS PROTECTED BY AN APPROVED
MEANS.