

SOUTHERN NEVADA BUILDING OFFICIALS
REGIONAL STANDARDS

P-105
2-11-2025
PG. 1 OF 1

WATER HEATER STRAP DETAIL

2024 UPC

Clark County
Building Department
4701 W Russell Rd
Las Vegas, NV 89118
(702) 455-3000

Boulder City
Building Department
401 California Avenue
Boulder City, NV 89005
(702) 293-9282

Henderson
Building & Fire Safety Department
240 S. Water Street
Henderson, NV 89015
(702) 267-3650

Las Vegas
Building & Safety
495 S. Main Street
Las Vegas, NV 89101
(702) 229-6251

GENERAL NOTES:

SECTION 507.2 OF THE UNIFORM PLUMBING CODE REQUIRES THAT WATER HEATERS BE ANCHORED OR STRAPPED TO RESIST HORIZONTAL DISPLACEMENT DUE TO EARTHQUAKE MOTION.

THIS CAN BE ACCOMPLISHED BY INSTALLING ANY OF THE OVER-THE-COUNTER PRODUCTS ESPECIALLY MADE FOR RESTRAINING WATER HEATERS. FASTEN THE STRAP IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

ALTERNATIVELY, YOU CAN MAKE YOUR OWN OUT OF HEAVY-DUTY METAL STRAP MATERIAL. STRAPS SHALL BE 22 GAUGE, 2" WIDE, MINIMUM. FASTEN THE STRAP TO THE STRUCTURE, USING WOOD SCREWS NOT LESS THAN 1/4" DIAMETER WITH A MINIMUM PENETRATION OF 1-1/2" INTO A WOOD STUD WALL, WITH A WASHER BETWEEN THE HEAD OF THE SCREW AND THE RESTRAINT.

IT IS REQUIRED THAT AT LEAST TWO RESTRAINTS ARE USED, WITH ONE IN THE UPPER ONE-THIRD AND ONE IN THE LOWER ONE-THIRD OF THE WATER HEATER.

RESTRAINT INSTALLED WITHIN UPPER ONE-THIRD OF WATER HEATER

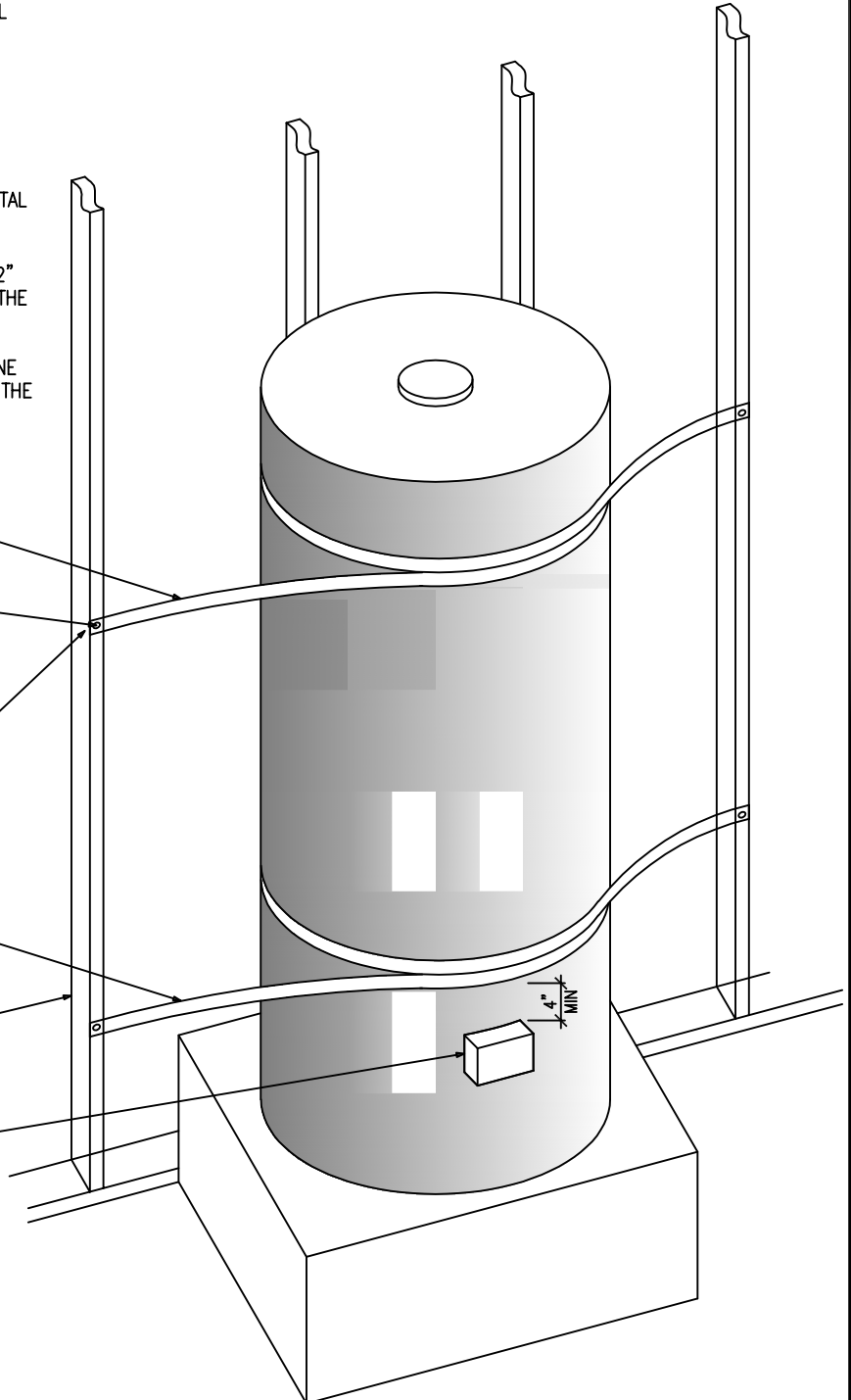
DRILL PILOT HOLES ON CENTER LINE OF STUD, INSERT SCREWS w/ WASHERS THROUGH PUNCHED HOLES IN STRAP

SCREWS TO BE MINIMUM 1/4" DIAMETER WITH MINIMUM 1-1/2" PENETRATION INTO FRAMING.

RESTRAINT INSTALLED WITHIN LOWER ONE-THIRD OF WATER HEATER AND A MINIMUM OF 4" ABOVE CONTROLS

WALL STUD

CONTROL UNIT



Mesquite
Building Department
10 East Mesquite Blvd.
Mesquite, NV 89027
(702) 346-2835

North Las Vegas
Building Safety
2250 Las Vegas Blvd. N
N. Las Vegas, NV 89030
(702) 633-1577

Pahrump
Nye County Building Department
2041 E. Calvada Boulevard North
Pahrump, NV 89048
(775) 751-3373

Clark County School District
Building Department
1180 Military Tribute Place
Henderson, NV 89074
(702) 799-7605