RAINFALL RATE 2 IN/H: FIXTURE RATE, A TEST INPUT AND NOT A SITE VALUE

STORM LEADER SCHEDULE

MARK	DRAINAGE AREA	ROOF (SQ FT)	RATE (IN/H)	Q (GPM)	LEADER, IPC 2021	CAPACITY (GPM)	OPSC 2026 T. 1103.1	RECORD
RL-1	MAIN WING ROOF	8,460	NOT PROVIDED — BY OTHERS	NOT PROVIDED — BY OTHERS	NOT PROVIDED — BY OTHERS	NOT PROVIDED — BY OTHERS	NOT PROVIDED — BY OTHERS	PLB-STM-101
RL-2	RETURN WING ROOF	7,050	NOT PROVIDED — BY OTHERS	NOT PROVIDED — BY OTHERS	NOT PROVIDED — BY OTHERS	NOT PROVIDED — BY OTHERS	NOT PROVIDED — BY OTHERS	PLB-STM-102

NOTES

1. Q = R X A X 0.0104 (IPC 2021 EQ. 11-1); THE LEADER IS THE SMALLEST ROUND SIZE OF TABLE 1106.3 THAT CARRIES Q. OPSC 2026 TABLE 1103.1, IN FORCE IN OREGON SINCE 2026-10-01, IS READ BESIDE IT: THE SIZES AGREE AND THE ALLOWABLE AREAS DIFFER SLIGHTLY.
2. THE RATE IS A FIXTURE RATE, NOT A SITE VALUE. THE SITE'S 100-YEAR 60-MINUTE RATE COMES FROM OPSC 2026 1101.12.1 AND TABLE D 101.1 (APPENDIX D) FOR THE SITE'S CITY, OR FROM NOAA: NO ATLAS 14 VOLUME COVERS OREGON, SO NOAA POINTS TO ARKELL AND RICHARDS (ONE HOUR OR LESS) AND NOAA ATLAS 2 VOLUME 10.
3. ONE DRAINAGE AREA, ONE ROOF DRAIN AND ONE LEADER PER WING ROOF. THE DRAIN LAYOUT, SECONDARY (OVERFLOW) DRAINAGE, THE HORIZONTAL STORM DRAIN AND THE LEADER MATERIAL ARE THE PLUMBING ENGINEER'S. NO WALL STANDS ABOVE THE ROOF, SO IPC 1106.4 ADDS NO WALL AREA.

HOT WATER DEMAND, ASHRAE 2003 CH. 45 TABLE 9 (APARTMENT)

FIXTURE	COUNT	GPH EACH AT 140 F	GPH	RECORD
BATHTUB	23	20	460	PLB-DHW-001
CLOTHES WASHER	23	20	460	PLB-DHW-001
DISHWASHER	46	15	690	PLB-DHW-001
KITCHEN SINK	64	10	640	PLB-DHW-001
LAVATORY	64	2	128	PLB-DHW-001
SHOWER	41	30	1,230	PLB-DHW-001
TOTAL			3,608	PLB-DHW-001

HOT WATER PLANT

ITEM	VALUE	RECORD
MAXIMUM PROBABLE DEMAND	1,082.4 GPH	PLB-DHW-002
STORAGE	1,353 GAL	PLB-DHW-003
HEATER OUTPUT	NOT PROVIDED — BY OTHERS	PLB-DHW-004
RECIRCULATION PUMP FLOW	NOT PROVIDED — BY OTHERS	PLB-DHW-005

GAS SERVICE, IFGC 2021 TABLE 402.4(2)

ITEM	VALUE	RECORD
CONNECTED LOAD	NOT PROVIDED — BY OTHERS	MEP-GAS-001
LONGEST LENGTH	NOT PROVIDED — BY OTHERS	MEP-GAS-002
SERVICE PIPE SIZE	NOT PROVIDED — BY OTHERS	MEP-GAS-003

NOTES

1. MAXIMUM PROBABLE DEMAND = FIXTURE DEMAND X 0.30, THE HEATER'S RECOVERY; STORAGE = MAXIMUM PROBABLE DEMAND X 1.25 (APARTMENT COLUMN). THE CLOTHES WASHER TAKES THE LAUNDRY ROW, A JUDGMENT; WATER CLOSETS HAVE NO ROW.
2. HEATER OUTPUT (BTU/H) = 500 X GPM X TEMPERATURE RISE TO 140 F (LAARS 5067G). THE COLD-WATER INLET TEMPERATURE IS NOT SOURCED: NOT PROVIDED — BY OTHERS. OPSC 2026 501.1'S FIRST-HOUR-RATING MINIMUM (TABLE 501.1(2)) IS NOT CHECKED.
3. GAS: TABLE 402.4(2) IS NATURAL GAS UNDER 2 PSI AT A 0.5 IN. W.C. DROP. THE PRODUCT LIBRARY CARRIES NO GAS APPLIANCE, SO THE LOAD, LENGTH AND SIZE STAY THE LITERAL UNTIL THEIR INPUTS ARE SOURCED. OMSC 2025 (IFGC 2024) IS IN FORCE; ITS TABLE MATCHES IFGC 2021.

HOT WATER RISER AND RECIRCULATION (SCHEMATIC)



1 STORM LEADERS, HOT WATER AND GAS
SCALE: NTS

SHEET NOTES

1. PLUMBING: SPECIFIED IN SECTION 22 11 00.

NOT PROVIDED — BY OTHERS
APPLICANT / OWNER

CONSULTANTS

STRUCTURAL	NOT PROVIDED — BY OTHERS
CIVIL	NOT PROVIDED — BY OTHERS
MECHANICAL	NOT PROVIDED — BY OTHERS
PLUMBING	NOT PROVIDED — BY OTHERS
ELECTRICAL	NOT PROVIDED — BY OTHERS
LANDSCAPE	NOT PROVIDED — BY OTHERS
FIRE PROTECTION	NOT PROVIDED — BY OTHERS
GEOTECHNICAL	NOT PROVIDED — BY OTHERS

REVIEW
Prepared for review by the design professional of record. Not for construction or permit submission.

PROJECT

Architecture.Engineering — L courtyard study

FICTIONAL STUDY: NO REAL PARCEL
ARCHITECTURE.ENGINEERING — L COURTYARD STUDY
OCCUPANCY R-2, M · CONSTRUCTION NOT PROVIDED — BY OTHERS · STORIES 4

REVISIONS

MARK	DATE	DESCRIPTION

REGISTER

Project	AE-STUDY-L01
Issue	NOT PROVIDED — BY OTHERS
Date	NOT PROVIDED — BY OTHERS
Drawn	NOT PROVIDED — BY OTHERS
Scale	NTS
Phase	CONSTRUCTION DOCUMENTS

OPEN ISSUE
The set's open issue is stated on the cover, G0.01.

STORM LEADERS, HOT WATER AND GAS

SHEET
P5.1