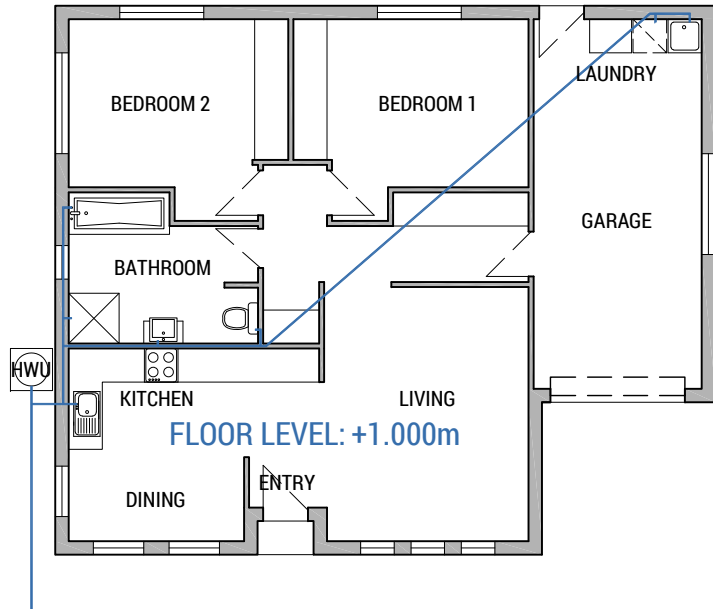


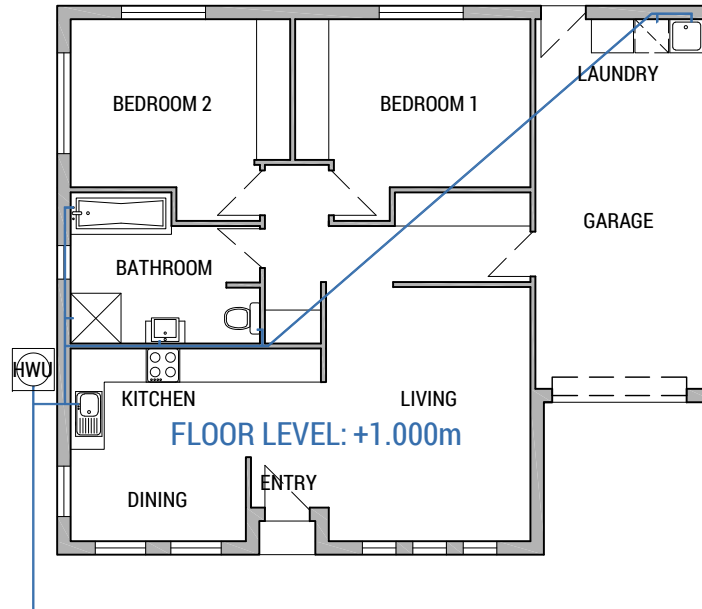
# CALCULATE THE MAIN SUPPLY FOR MULTIPLE UNITS



**UNIT 2**  
**INDEX LENGTH: 54m**  
**TOTAL LENGTH TO MOST DISADVANTAGED FIXTURE**  
**(IN THIS CASE THE LAUNDRY TROUGH)**



**UNIT 1**



**HIGHEST FIXTURE: +3.000m**  
**(IN THIS CASE SHOWER)**

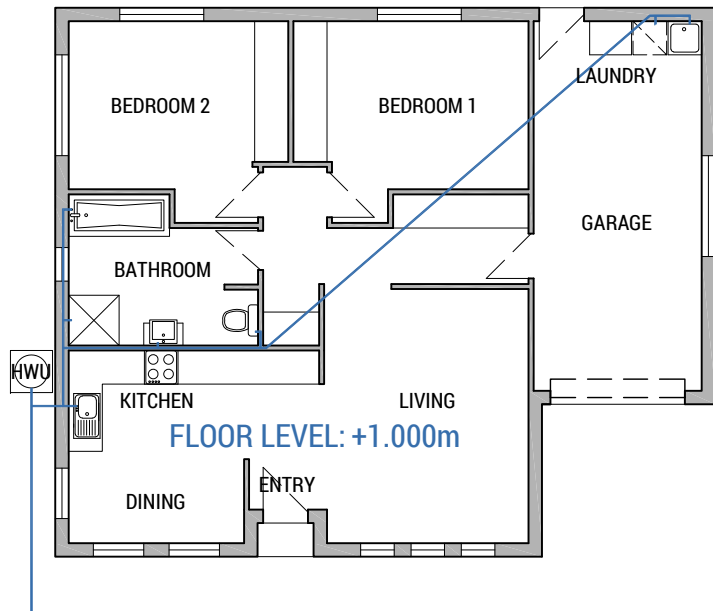
**SUPPLY POINT**  
**PRESSURE: 475kPa**  
**DATUM LEVEL: 0.000m**

**STEP 1:**  
Enter the Supply pressure, Index length of Unit 2, Height from supply and Number of dwellings.

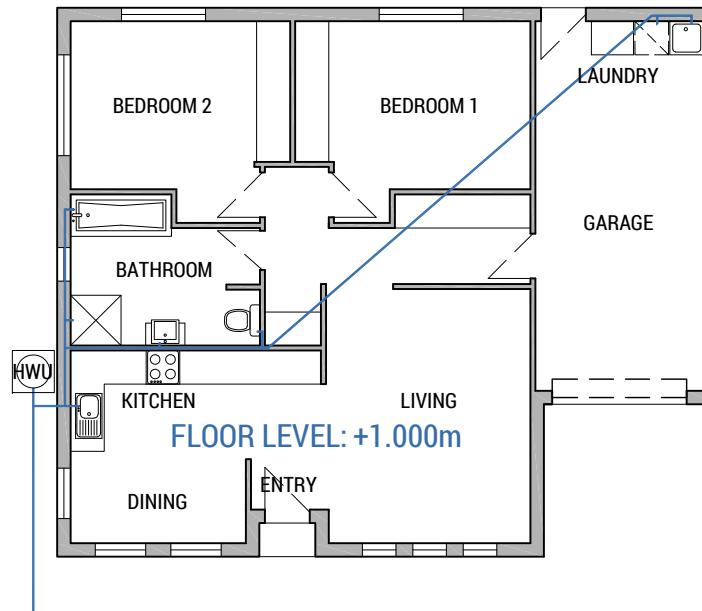
475	Supply pressure (kPa) ?
54	Index length (m) ?
3	Height from supply (m) ?
210	Residual pressure (kPa) ?
2.4	Water velocity (m/sec) ?
2	Number of dwellings ?
▼ Loading units per dwelling: 31	
0	Fixed flow (L/sec) ?
<b>Calculate</b>	

# CALCULATE THE MAIN SUPPLY FOR MULTIPLE UNITS

**UNIT 2**  
INDEX LENGTH: 54m  
TOTAL LENGTH TO MOST DISADVANTAGED FIXTURE  
(IN THIS CASE THE LAUNDRY TROUGH)



**UNIT 1**



**HIGHEST FIXTURE: +3.000m**  
(IN THIS CASE SHOWER)

**SUPPLY POINT**  
PRESSURE: 475kPa  
DATUM LEVEL: 0.000m

**STEP 2:**  
Enter the number of fixtures.  
(This step is optional but may lead to undersized pipework. If no loading units are entered the calculator will default to 31 per AS3500.1:2015.)

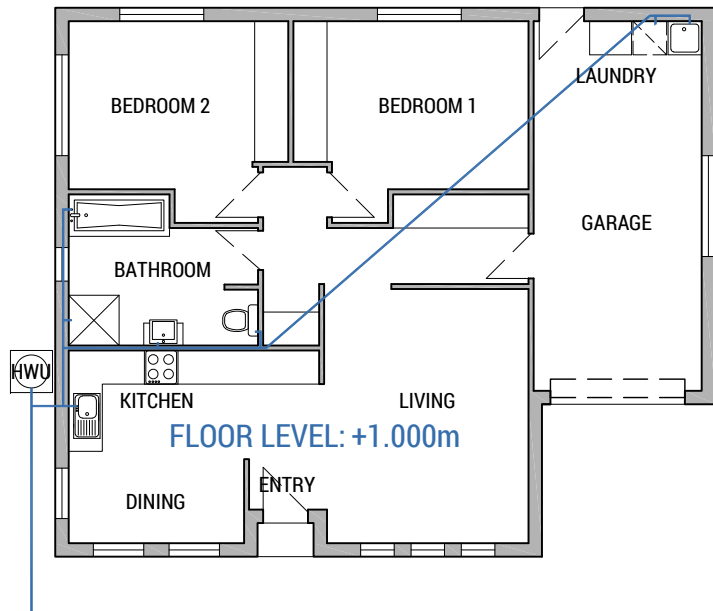
Loading units per dwelling: 29

- Bath
- Basin
- Hose tap (15 nom. size)
- Hose tap (20 nom. size)
- Laundry trough
- Mains pres. water heater
- Shower
- Sink (aerated tap)
- Sink (standard tap)
- Spray tap
- Wash. machine/dishw
- Water closet cistern
- Fixed flow (L/sec) ?

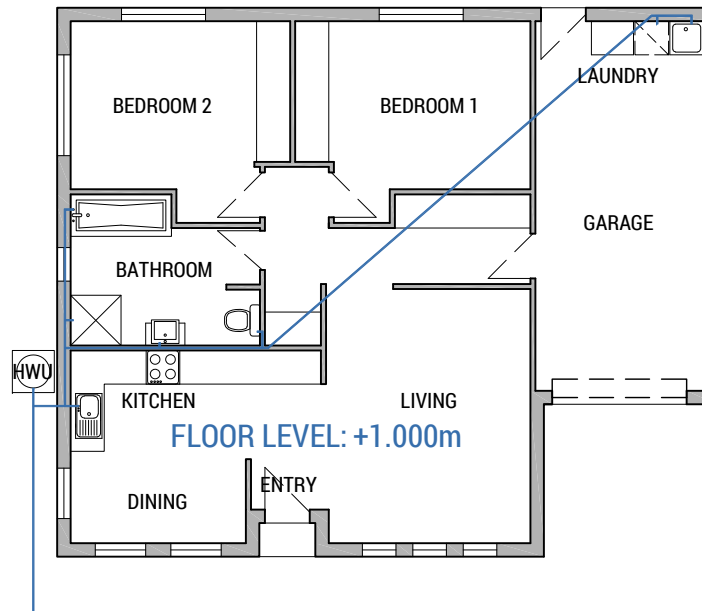
# CALCULATE THE MAIN SUPPLY FOR MULTIPLE UNITS



**UNIT 2**  
**INDEX LENGTH: 54m**  
**TOTAL LENGTH TO MOST DISADVANTAGED FIXTURE**  
**(IN THIS CASE THE LAUNDRY TROUGH)**



**UNIT 1**

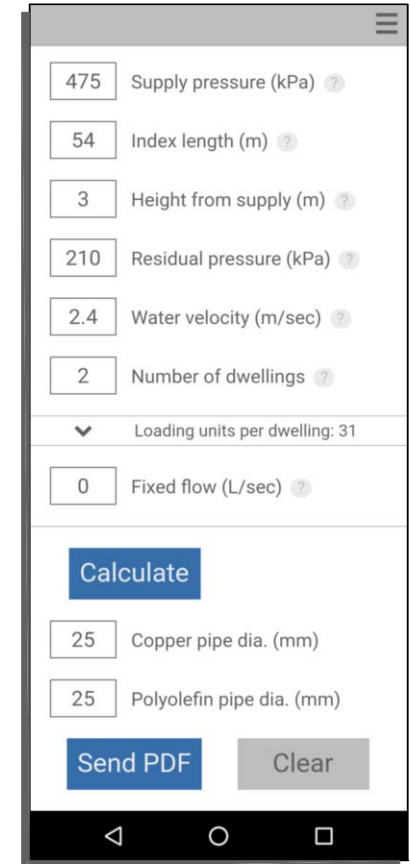


**HIGHEST FIXTURE: +3.000m**  
**(IN THIS CASE SHOWER)**

DN25 COPPER / DN25 POLYOLEFIN

**SUPPLY POINT**  
**PRESSURE: 475kPa**  
**DATUM LEVEL: 0.000m**

**STEP 3:**  
Calculate main to Unit 1.  
(Loading unit total from Step 2 was less than 31 so the calculator was reset for compliance with AS3500.1.)

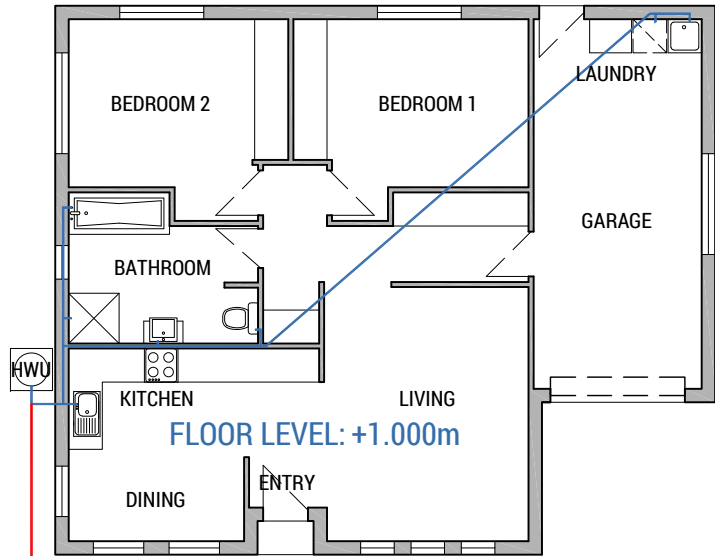


NOTE: Pipe sizes calculated are minimum sizes, the designer shall reference AS3500.1-2015 Section 3.5 to ensure compliance.

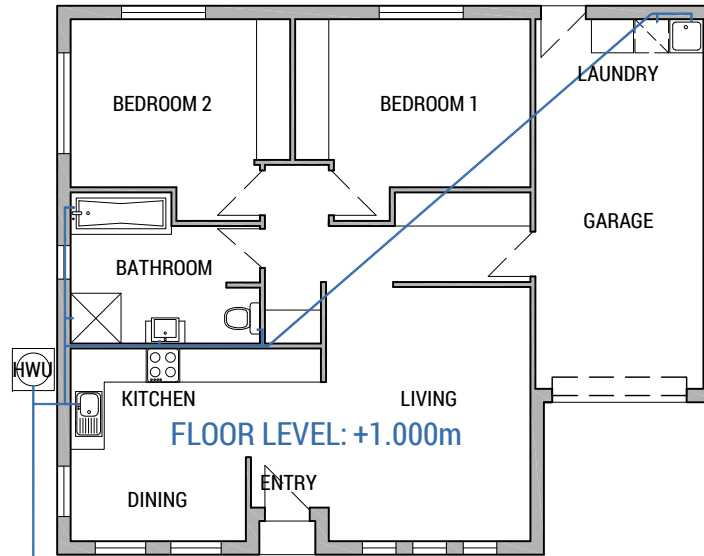
# CALCULATE THE MAIN SUPPLY FOR MULTIPLE UNITS



**UNIT 2**  
**INDEX LENGTH: 54m**  
**TOTAL LENGTH TO MOST DISADVANTAGED FIXTURE**  
**(IN THIS CASE THE LAUNDRY TROUGH)**



**UNIT 1**



**HIGHEST FIXTURE: +3.000m**  
**(IN THIS CASE SHOWER)**

**DN25 COPPER / DN25 POLYOLEFIN**

**DN25 COPPER / DN25 POLYOLEFIN**

**SUPPLY POINT**  
**PRESSURE: 475kPa**  
**DATUM LEVEL: 0.000m**

## STEP 4: Calculate main to Unit 2.

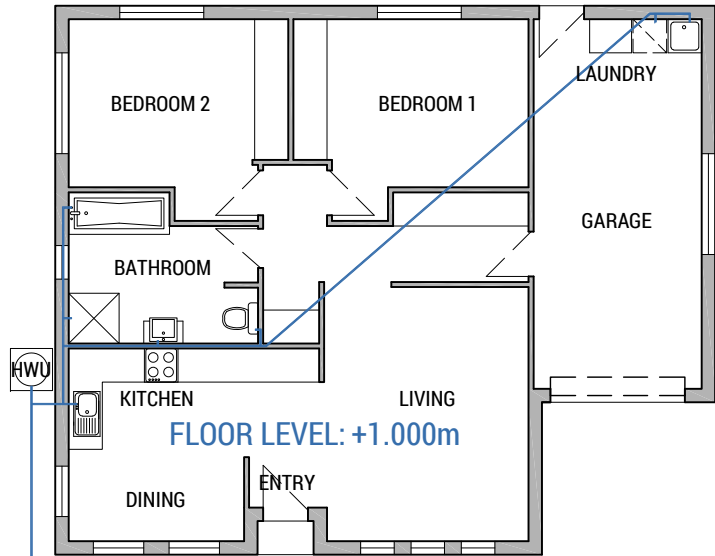
475	Supply pressure (kPa) ?
54	Index length (m) ?
3	Height from supply (m) ?
210	Residual pressure (kPa) ?
2.4	Water velocity (m/sec) ?
1	Number of dwellings ?
Loading units per dwelling: 31	
0	Fixed flow (L/sec) ?
<b>Calculate</b>	
25	Copper pipe dia. (mm)
25	Polyolefin pipe dia. (mm)
<b>Send PDF</b> <b>Clear</b>	

NOTE: Pipe sizes calculated are minimum sizes, the designer shall reference AS3500.1-2015 Section 3.5 to ensure compliance.

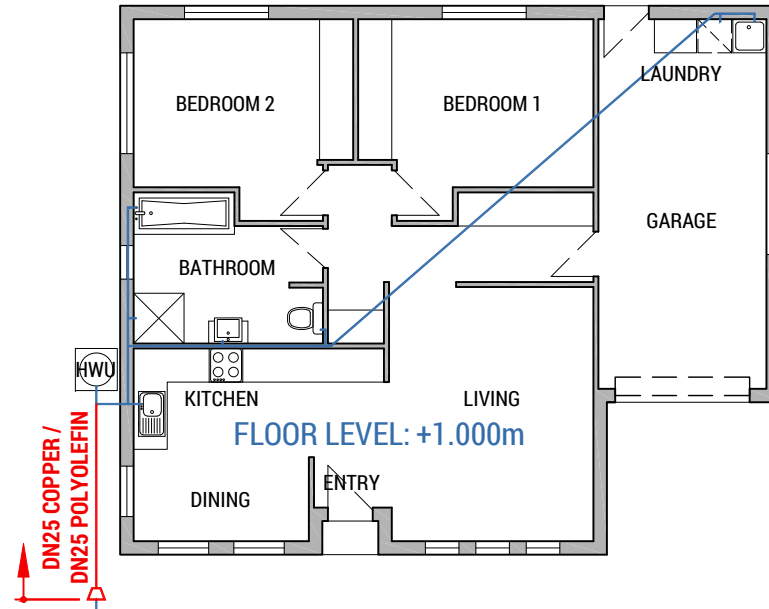
# CALCULATE THE MAIN SUPPLY FOR MULTIPLE UNITS



**UNIT 2**  
**INDEX LENGTH: 54m**  
**TOTAL LENGTH TO MOST DISADVANTAGED FIXTURE**  
**(IN THIS CASE THE LAUNDRY TROUGH)**



**UNIT 1**



**HIGHEST FIXTURE: +3.000m**  
**(IN THIS CASE SHOWER)**

DN25 COPPER / DN25 POLYOLEFIN

DN25 COPPER / DN25 POLYOLEFIN

**SUPPLY POINT**  
**PRESSURE: 475kPa**  
**DATUM LEVEL: 0.000m**

**STEP 5:**  
 In this example the supply for Unit 1 matches that for Unit 2.

475 Supply pressure (kPa) ?  
 54 Index length (m) ?  
 3 Height from supply (m) ?  
 210 Residual pressure (kPa) ?  
 2.4 Water velocity (m/sec) ?  
 1 Number of dwellings ?  
 Loading units per dwelling: 31  
 0 Fixed flow (L/sec) ?  
**Calculate**  
 25 Copper pipe dia. (mm)  
 25 Polyolefin pipe dia. (mm)  
**Send PDF** **Clear**

NOTE: Pipe sizes calculated are minimum sizes, the designer shall reference AS3500.1-2015 Section 3.5 to ensure compliance.