

The following assumption is made:

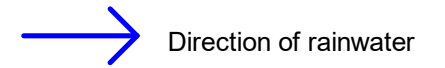
All guttering is 5" x 3" cast iron, half-round moulds.

Downpipes around the main roof are 2.5" double socket cast iron pipes.

Downpipes to the courtyard roofs are 2.5" cast iron pipes.

Hopper heads are noted as rectangular (castellated) no. 485 with dimensions 10" x 7" x 7" (WXDXH) and an outlet 4"

All repairs to be in cast iron to match existing gutter profiles from J+JW Longbottom Foundry.



A
Area: 27.3sqm
Angle: 45 degrees

Outlet required: 0.7 L/s
Outlet achieved: 1.3 L/s
Gutter required: 0.7 L/s
Gutter achieved: 1.1 L/s

B
Area: 31.3sqm
Angle: 45 degrees

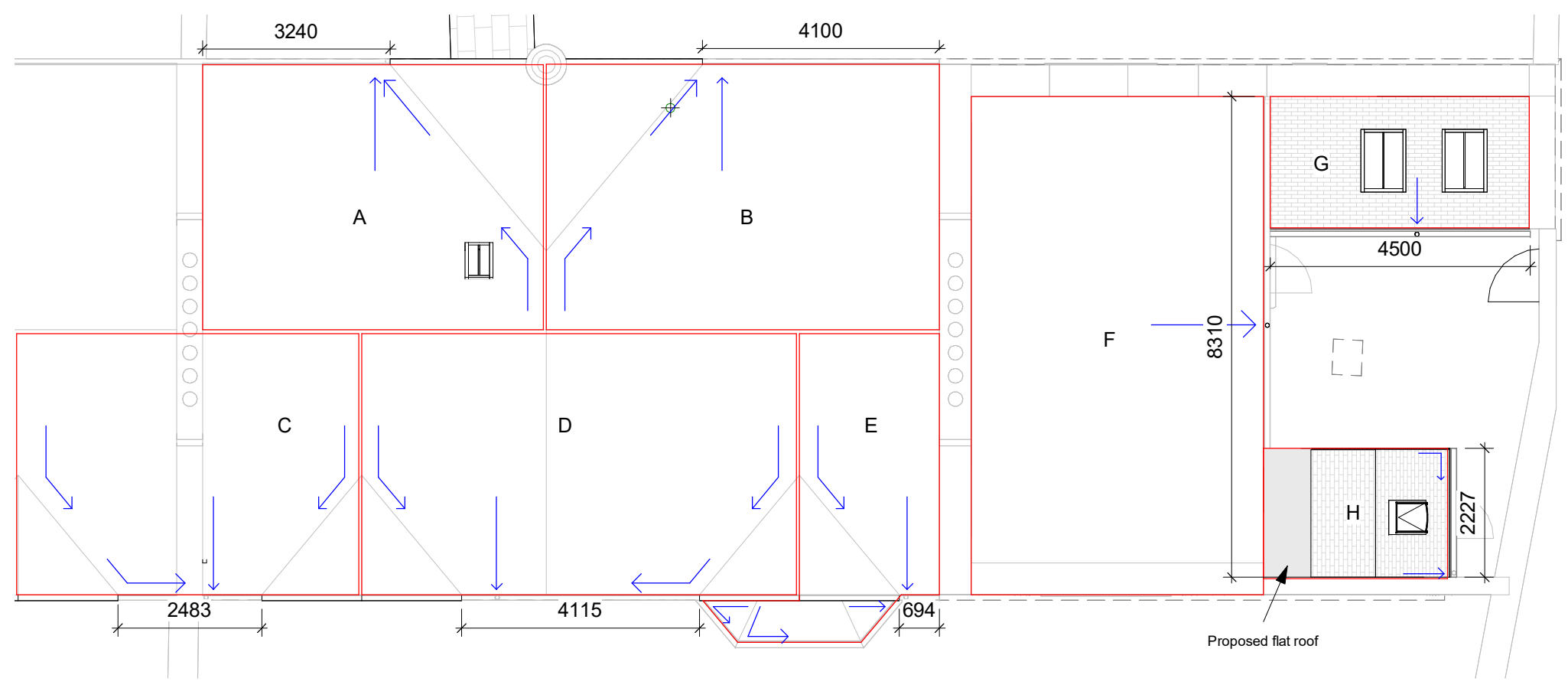
Outlet required: 0.8 L/s
Outlet achieved: 2.5 L/s
Gutter required: 0.4 L/s
Gutter achieved: 2.3 L/s

F
Area: 50sqm
Angle: 30 degrees

Outlet required: 1.2 L/s
Outlet achieved: 2.5 L/s
Gutter required: 0.6 L/s
Gutter achieved: 2.2 L/s

G
Area: 9.3sqm
Angle: 17.5 degrees

Outlet required: 0.2 L/s
Outlet achieved: 2.5 L/s
Gutter required: 0.1 L/s
Gutter achieved: 2.3 L/s



C
Area: 28.8sqm*
Angle: 45 degrees

Outlet required: 0.8L/s
Outlet achieved: 2.5 L/s
Gutter required: 0.4 L/s
Gutter achieved: 2.3 L/s

D
Area: 38.3sqm
Angle: 45 degrees

Outlet required: 1.0 L/s
Outlet achieved: 2.5 L/s
Gutter required: 0.5 L/s
Gutter achieved: 2.3 L/s

E
Area: 15.2sqm
Angle: 45 degrees

Outlet required: 0.4 L/s
Outlet achieved: 2.5 L/s
Gutter required: 0.2 L/s
Gutter achieved: 2.3 L/s

H
Area: 8.05sqm
Angle: 30 degrees

Outlet required: 0.2 L/s
Outlet achieved: 1.3 L/s
Gutter required: 0.2 L/s
Gutter achieved: 1.1 L/s

*The guttering from nextdoor also filters through to this outlet so a greater roof area has been accounted for

1 Roof Plan
1 : 100

rev	description	status	author	date
A	Updated figures for drainage flow rates			15/03/24
	first issue		Author	14/03/24

St. Andrew, High St, Llandaff, CF5 2DX
Nia Wyn Jones

Guttering and Downpipes

job no.	drawing no.	rev	status	scale @ A3
348	A(50)-02	A	Information	1 : 100