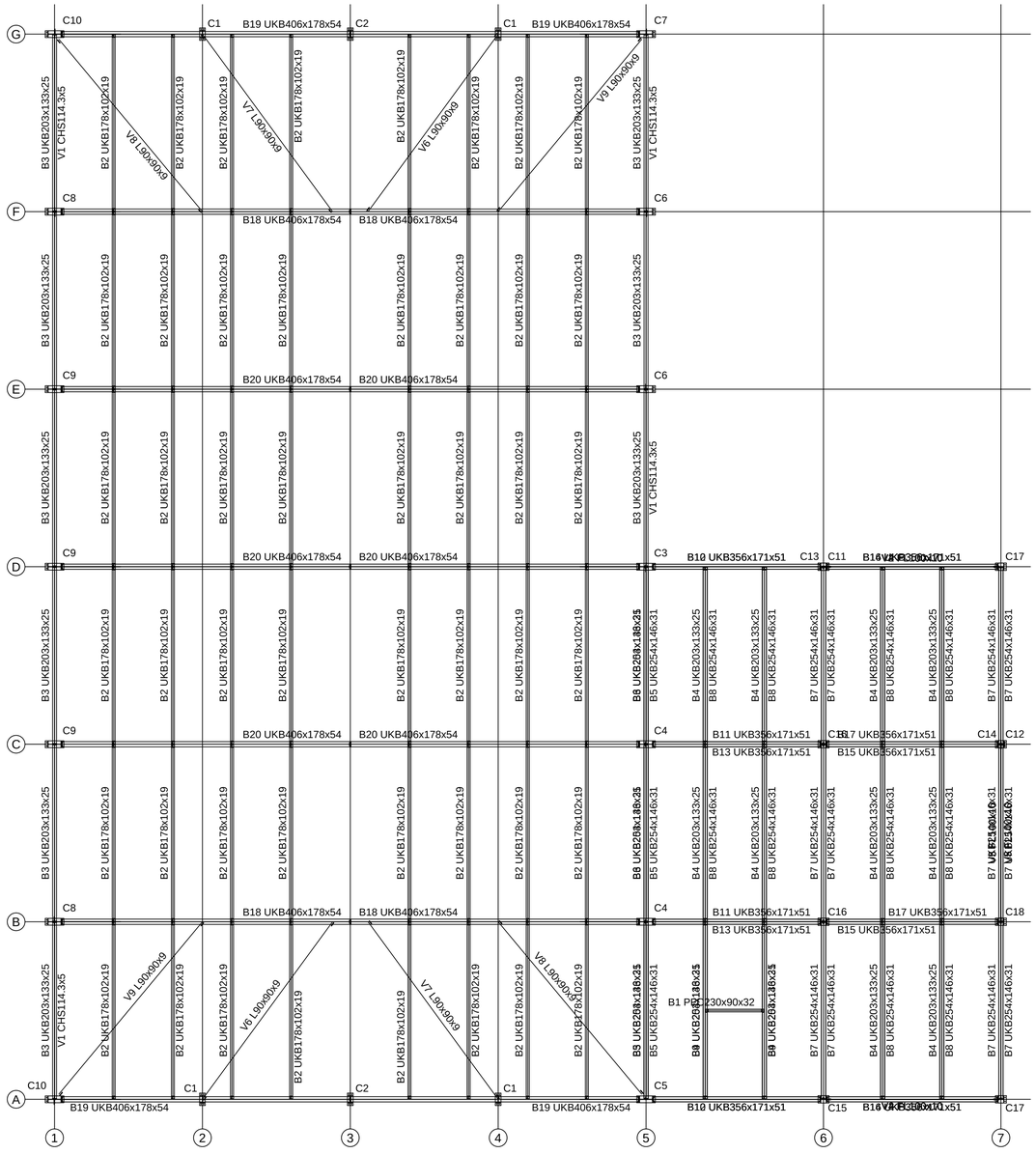
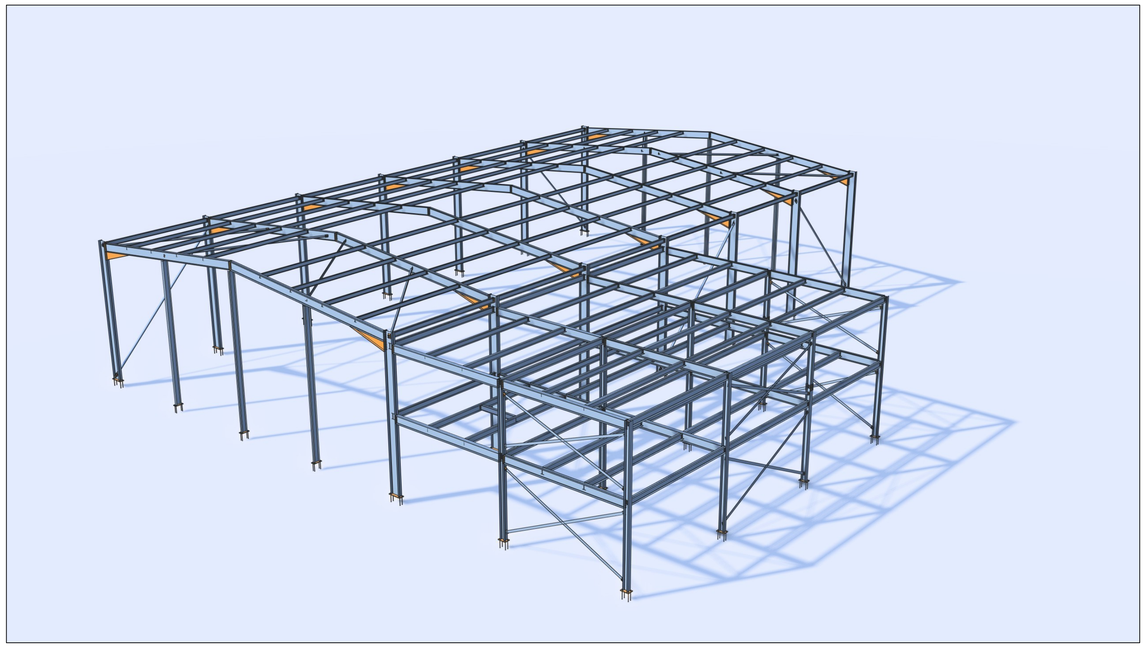
ROOF AND FRAME PLAN (all levels as modelled) 1:100

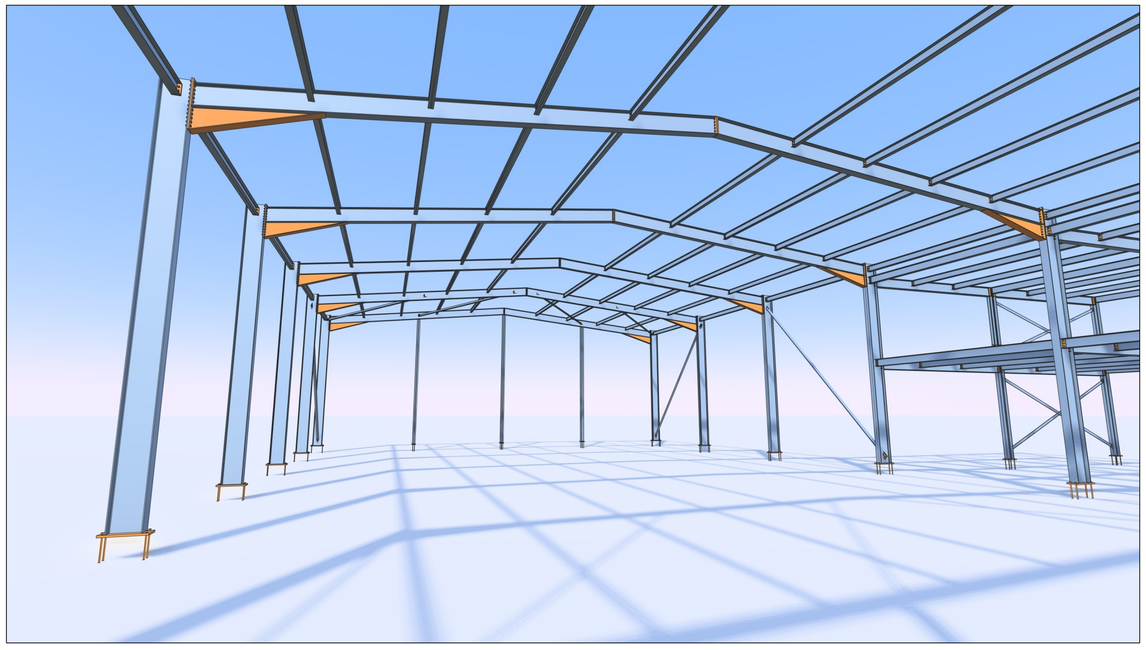


SECTIONS USED (STLSECTION; cm units)

Section	Family	Mass (kg/m)	Area (cm2)	Iy (cm4)	Iz (cm4)	Wel.y (cm3)	Wel.z (cm3)	Wpl.y (cm3)	Wpl.z (cm3)	iy (cm)	iz (cm)
UKB457x191x67	UKB	67.1	85.51	29380.4	1452.1	1296.0	152.9	1471.0	237.3	18.54	4.12
UKB406x178x54	UKB	54.1	68.95	18722.3	1021.2	930.1	114.9	1054.6	178.3	16.48	3.85
UKB254x146x31	UKB	31.1	39.68	4413.4	447.5	351.1	61.3	393.1	94.1	10.55	3.36
UKB203x133x25	UKB	25.1	31.97	2340.2	307.6	230.3	46.2	257.7	70.9	8.56	3.10
UKB178x102x19	UKB	19.0	24.26	1356.0	136.7	152.5	27.0	171.3	41.6	7.48	2.37
CHS114.3x5	CHS	13.5	17.17	256.9	256.9	44.9	44.9	59.8	59.8	3.87	3.87
L90x90x9	L	12.3	15.65	118.6	118.6	18.4	18.4	33.2	33.2	2.75	2.75
UKC203x203x46	UKC	46.1	58.73	4567.8	1548.2	449.6	152.1	497.4	230.9	8.82	5.13
UKB356x171x51	UKB	51.0	64.91	14136.0	968.3	796.4	112.9	896.0	174.2	14.76	3.86
PFC230x90x32	PFC	32.4	41.32	3550.8	335.2	308.8	55.0	358.1	99.3	9.27	2.85
FL100x10	FL	7.9	10.00	83.3	0.8	16.7	1.7	25.0	2.5	2.89	0.29



View from the south-east: office frame in front of the portal-frame hall.



Inside the hall: haunched eaves, purlins on fin plates, roof bracing.

NOTES

1. The plan is the model itself: the grid, members and marks as Structural Steel draws them in plan (STLGRID, STLPORTAL, STLCOLUMN, STLBEAM, STLBRACE, STLMARK).
2. Hall: 7 portal frames at 6 m, 20 m span, eaves +7.000, 6 degree pitch. Office: lines 5 to 7, A to D, floors at +3.600 and +6.600 (stacked here; see sheet 2).
3. Section properties: STLSECTION, worked out from the section outlines.
4. Renders: RENDERSTILL of the plugin's solids; colours are mine (steel blue-grey, plates and bolts orange).
5. Structural Steel checks that things fit, not that they carry load; the beam check is a design aid.
6. Demonstration drawing of a fictional job: not for manufacture or construction.

Stratal CAD
cad.stratal.co.uk

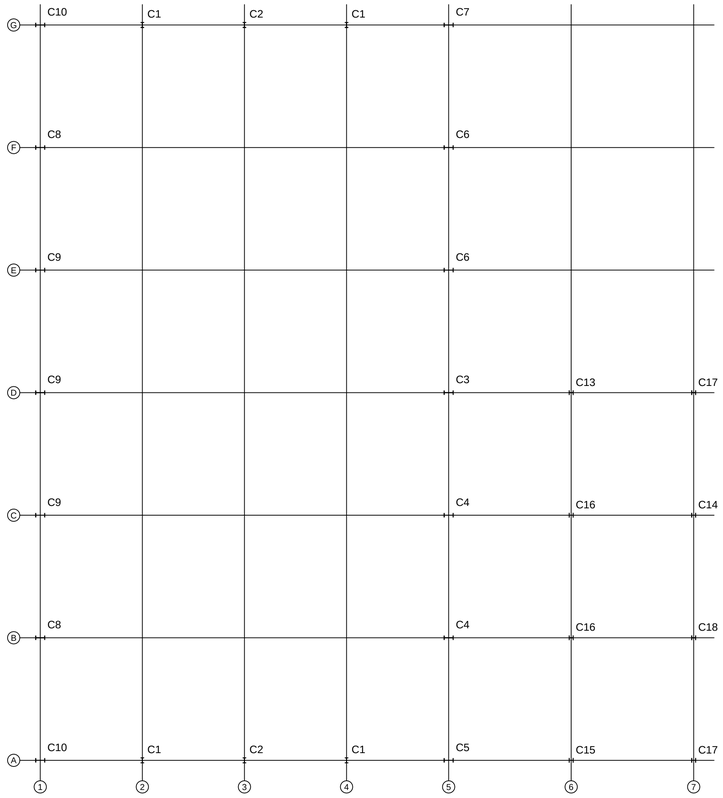
TITLE
GENERAL ARRANGEMENT
ROOF STEEL PLAN AND 3D VIEWS

PROJECT	DRAWN
Unit 4 Osprey Way, Larkfield (fictional)	Stratal CAD demo

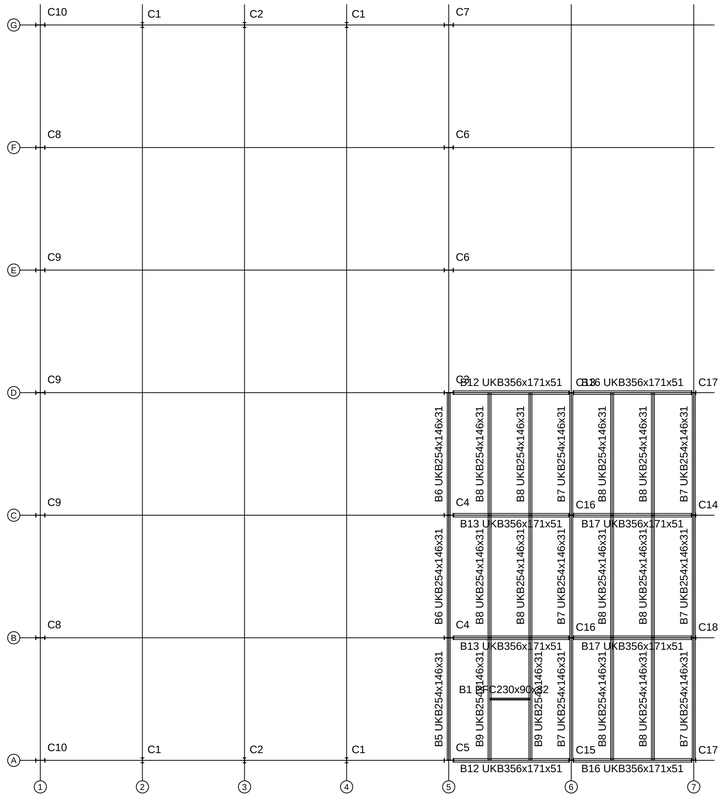
DRAWING NO.	SHEET	SCALE	SIZE
STR-STL-101	1 of 7	1:100	A1

SOFTWARE	DATE
Stratal CAD 0.1.8, Structural Steel 0.7.0	12 Nov 2026

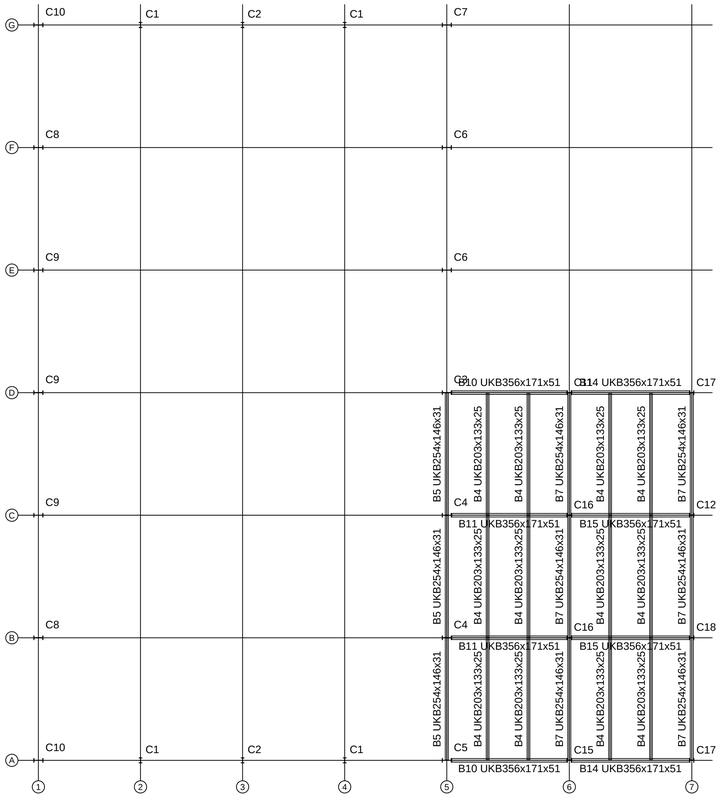
STATUS
DEMONSTRATION DRAWING - NOT FOR MANUFACTURE



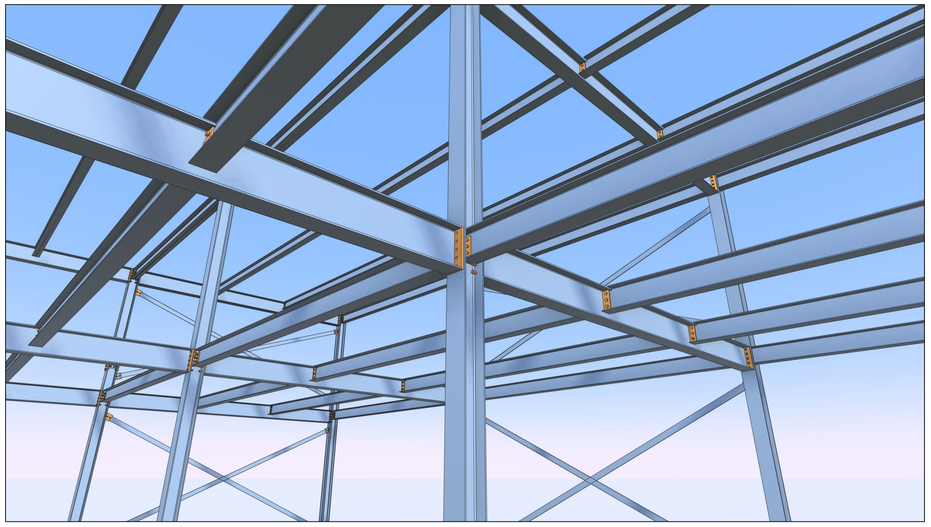
PLAN AT LEVEL 1 +0.000



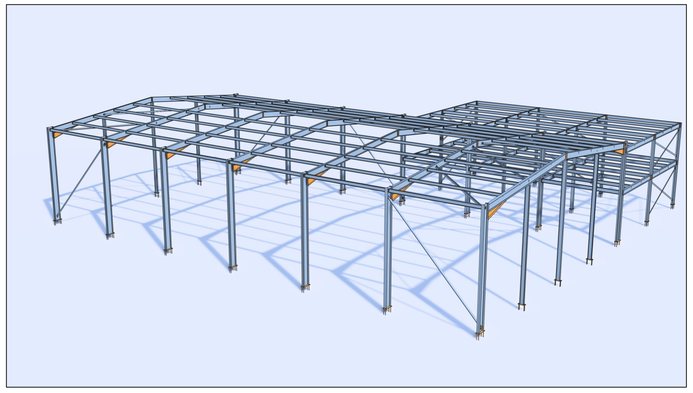
PLAN AT LEVEL 2 +3.600



PLAN AT LEVEL 3 +6.600



First floor node at 6/B from below: end plates, web cleats, coped secondaries on fin plates.



The frame from the south-west.

CONNECTIONS

Connection	Bolts	Layout	Plate (mm)	Plate grade	Count
Apex plates	M20 8.8	5 rows x 2	180 x 405 x 20	S275	7
Base plate	M20 8.8	4 anchors x 400	190 x 420 x 25	S275	6
Base plate	M24 8.8	4 anchors x 400	230 x 630 x 30	S275	14
Base plate	M20 8.8	4 anchors x 400	250 x 370 x 25	S275	8
Column splice	M20 8.8	16 + 4 bolts	flange covers 280 x 204 x 15, web covers 140 x 150 x 8	S275	2
Cope (top)	-	-	-	-	146
Eaves end plate + haunch	M20 8.8	12 rows x 2	180 x 880 x 20, haunch 2000 x 403	S275	14
End plate	M20 8.8	2 rows x 2	133 x 203 x 20	S275	24
End plate	M20 8.8	5 rows x 2	172 x 355 x 20	S275	32
Fin plate	M16 8.8	2 rows x 1	70 x 115 x 10	S275	96
Fin plate	M16 8.8	3 rows x 1	70 x 170 x 10	S275	2
Fin plate	M20 8.8	2 rows x 1	80 x 140 x 10	S275	24
Fin plate	M20 8.8	3 rows x 1	80 x 210 x 10	S275	36
Gusset	M16 8.8	1 rows x 2	125 x 130 x 10	S275	16
Gusset	M16 8.8	1 rows x 2	125 x 140 x 10	S275	24
Knife plate (CHS)	M20 8.8	1 rows x 2	270 x 160 x 10	S275	8
Web cleats	M16 8.8	3 rows x 1	70 x 170 x 10	S275	24
Total					483

NOTES

1. Plans by STLPLAN at 1:150: one level each, columns passing the level, beams at it, marks placed by the plugin.
2. Level 4 (+7.000, the eaves beams) and the pitched roof are on sheet 1: STLPLAN draws members at a grid level only.
3. Connections counted from the plugin's connection objects (STLCONN, STLPORTAL, STLSPLIT); bolts, plates and welds are in the take-off on sheet 6.
4. Model check: STLAUDIT, member totals and centre of gravity: STLLIST.
5. Structural Steel checks that things fit, not that they carry load; the beam check is a design aid.
6. Demonstration drawing of a fictional job: not for manufacture or construction.

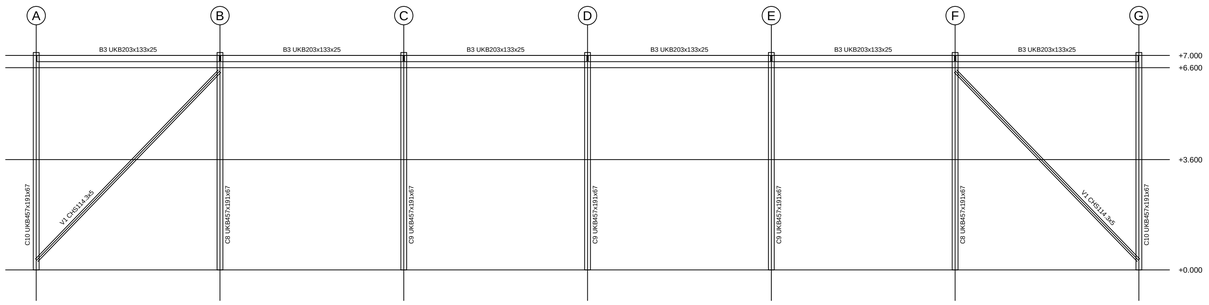
Stratal CAD

cad.stratal.co.uk

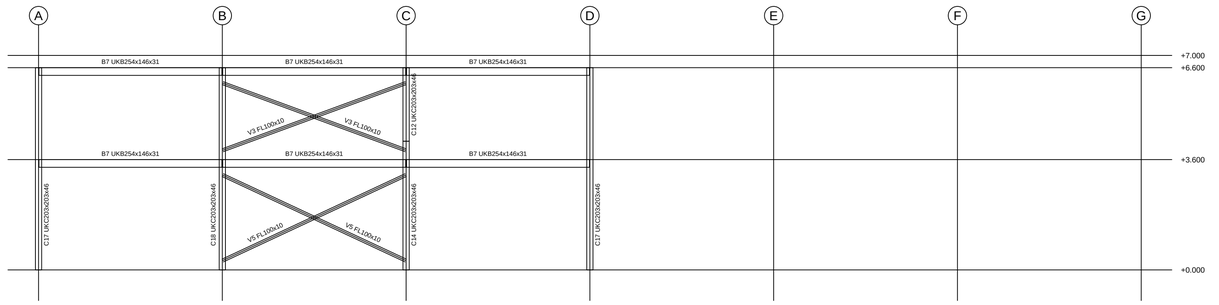
TITLE
LEVEL PLANS
BASE, FIRST FLOOR AND OFFICE ROOF

PROJECT		DRAWN	
Unit 4 Osprey Way, Larkfield (fictional)		Stratal CAD demo	
DRAWING NO.	SHEET	SCALE	SIZE
STR-STL-102	2 of 7	1:150	A1
SOFTWARE		DATE	
Stratal CAD 0.1.8, Structural Steel 0.7.0		12 Nov 2026	

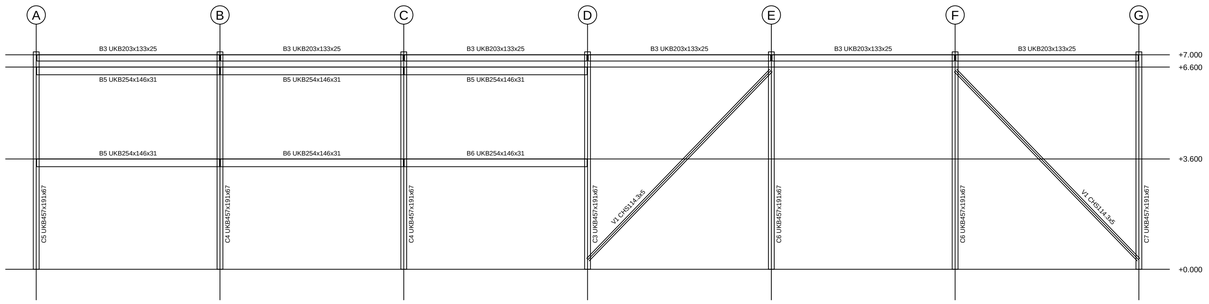
STATUS
DEMONSTRATION DRAWING - NOT FOR MANUFACTURE



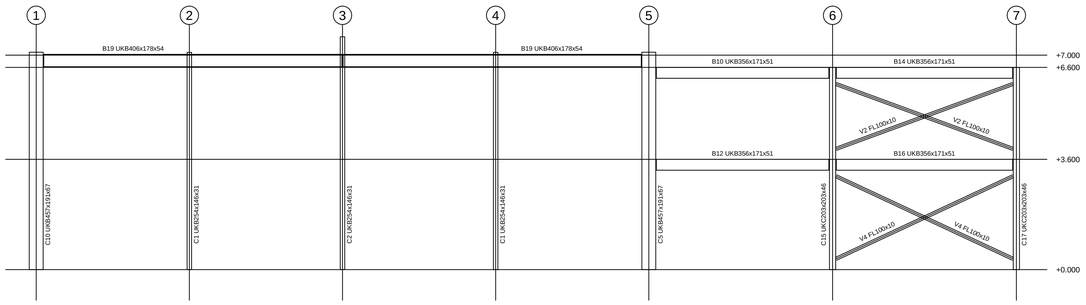
ELEVATION ON GRID 1



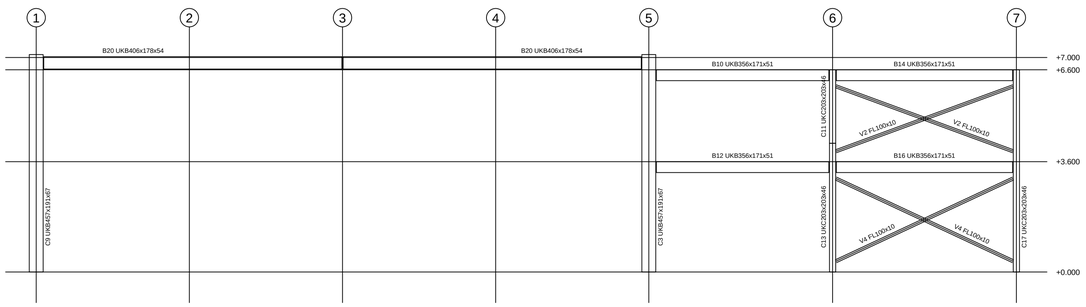
ELEVATION ON GRID 7



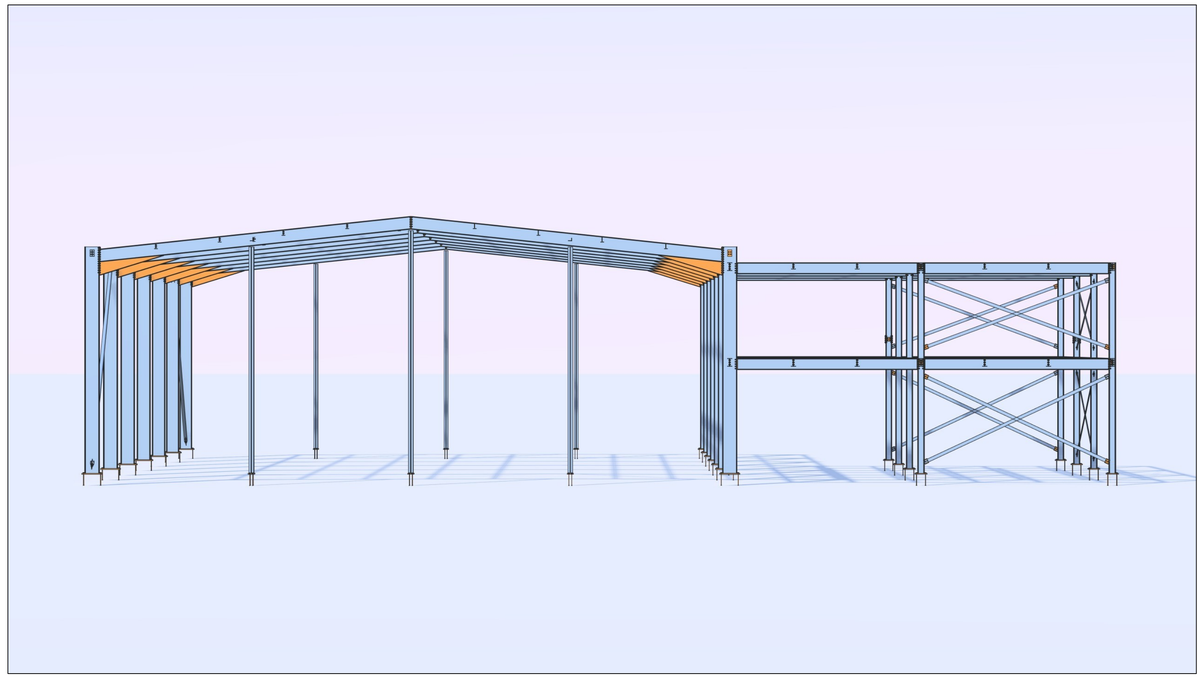
ELEVATION ON GRID 5



ELEVATION ON GRID A



ELEVATION ON GRID D



South gable, rendered square-on: the portal frame's true shape.

MEMBER KEY (sections are the designer's input)

Portal columns UKB457x191x67, rafters UKB406x178x54 with 2000 x 403 haunches, gable posts UKB254x146x31.
Eaves beams UKB203x133x25, purlins UKB178x102x19 on fin plates, roof bracing L90x90x9, wall bracing CHS114.3x5.
Office columns UKC203x203x46, primaries UKB356x171x51, ties and floor secondaries UKB254x146x31.
Office roof secondaries UKB203x133x25, stair trimmer PFC230x90x32, wall bracing FL100x10. All S355 but the trimmer (S275).

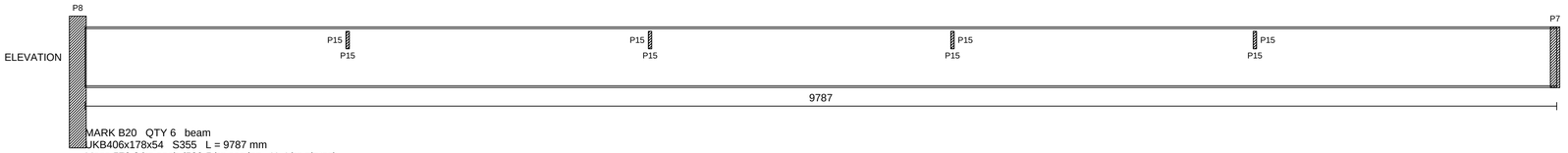
NOTES

1. Elevations by STLELEV at 1:100: the members with both ends on the grid line, labels placed by the plugin.
2. STLELEV draws the rafters level between the columns (lines A and D): the true pitched shape, haunches and apex are in the render above and on sheet 4.
3. Line 1: hall side wall, eaves beams and CHS bracing. Line 5: the wall shared with the office. Line 7: office east wall with flat X-bracing.
4. Line A: south gable with gable posts; line D: the last frame joined to the office.
5. Levels: +0.000 slab, +3.600 first floor, +6.600 office roof, +7.000 eaves (top of steel).
6. Structural Steel checks that things fit, not that they carry load; the beam check is a design aid.
7. Demonstration drawing of a fictional job: not for manufacture or construction.

Stratal CAD
cad.stratal.co.uk

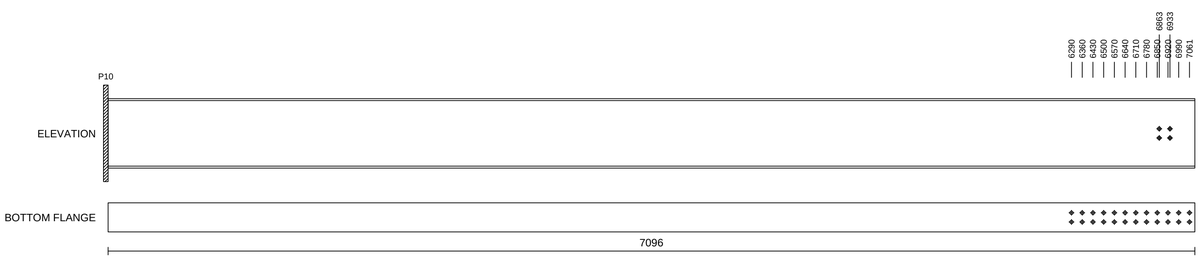
TITLE
ELEVATIONS
GRID LINES 1, 5, A, D AND 7

PROJECT		DRAWN	
Unit 4 Osprey Way, Larkfield (fictional)		Stratal CAD demo	
DRAWING NO.	SHEET	SCALE	SIZE
STR-STL-103	3 of 7	1:100	A1
SOFTWARE		DATE	
Stratal CAD 0.1.8, Structural Steel 0.7.0		12 Nov 2026	
STATUS			
DEMONSTRATION DRAWING - NOT FOR MANUFACTURE			



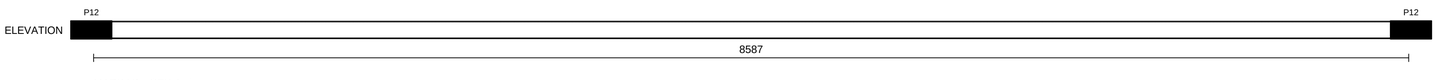
HOLES face x y dia
none

MARK B20 QTY 6 beam
UKB406x178x54 S355 L = 9787 mm
Mass 570.8 kg each (529.5 kg section, 41.4 kg plates)
P15 8 x fin plate 70 x 115 x 10 S275
P7 1 x apex plate 180 x 405 x 20 S275
P8 1 x end plate 180 x 880 x 20 S275
Holes: 0 Written by Stratal CAD Structural Steel



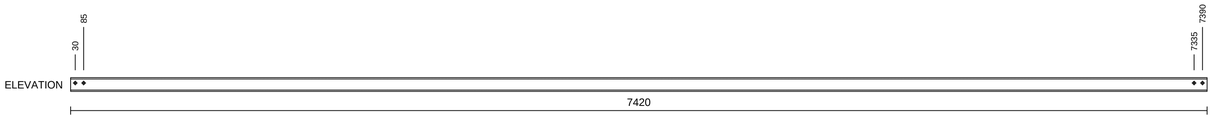
HOLES face x y dia
u 6290.5 65.0 22.0
u 6290.5 125.0 22.0
u 6360.5 65.0 22.0
u 6360.5 125.0 22.0
u 6430.5 65.0 22.0
u 6430.5 125.0 22.0
u 6500.5 65.0 22.0
u 6500.5 125.0 22.0
u 6570.5 65.0 22.0
u 6570.5 125.0 22.0
u 6640.5 65.0 22.0
u 6640.5 125.0 22.0
u 6710.5 65.0 22.0
u 6710.5 125.0 22.0
u 6780.5 65.0 22.0
u 6780.5 125.0 22.0
u 6850.5 65.0 22.0
u 6850.5 125.0 22.0
u 6920.5 65.0 22.0
u 6920.5 125.0 22.0
u 6990.5 65.0 22.0
u 6990.5 125.0 22.0
u 7060.9 65.0 22.0
u 7060.9 125.0 22.0
v 6863.4 196.7 22.0
v 6863.4 196.7 22.0
v 6863.4 256.7 22.0
v 6863.4 256.7 22.0
v 6933.4 196.7 22.0
v 6933.4 196.7 22.0
v 6933.4 256.7 22.0
v 6933.4 256.7 22.0

MARK C9 QTY 3 column
UKB457x191x67 S355 L = 7096 mm
Mass 510.3 kg each (476.1 kg section, 34.1 kg plates)
P10 1 x base plate 230 x 630 x 30 S275
Holes: 32 Written by Stratal CAD Structural Steel



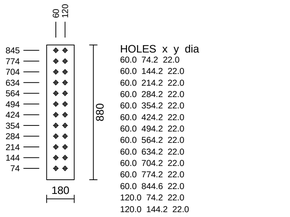
HOLES face x y dia
none

MARK V1 QTY 4 brace
CHS114.3x5 S355 L = 8587 mm
Mass 120.8 kg each (115.7 kg section, 5.1 kg plates)
P12 2 x knife plate 270 x 120 x 10 S275
Holes: 0 Written by Stratal CAD Structural Steel



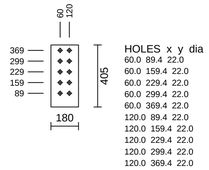
HOLES face x y dia
v 30.0 55.0 18.0
v 85.0 55.0 18.0
v 7335.4 55.0 18.0
v 7390.4 55.0 18.0

MARK V6 QTY 2 brace
L90x90x9 S355 L = 7420 mm
Mass 91.2 kg each (91.2 kg section, 0.0 kg plates)
Holes: 4 Written by Stratal CAD Structural Steel



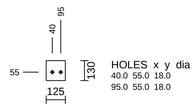
HOLES x y dia
60.0 74.2 22.0
60.0 144.2 22.0
60.0 214.2 22.0
60.0 284.2 22.0
60.0 354.2 22.0
60.0 424.2 22.0
60.0 494.2 22.0
60.0 564.2 22.0
60.0 634.2 22.0
60.0 704.2 22.0
60.0 774.2 22.0
60.0 844.6 22.0
120.0 74.2 22.0
120.0 144.2 22.0
120.0 214.2 22.0
120.0 284.2 22.0
120.0 354.2 22.0
120.0 424.2 22.0
120.0 494.2 22.0
120.0 564.2 22.0
120.0 634.2 22.0
120.0 704.2 22.0
120.0 774.2 22.0
120.0 844.6 22.0

PLATE P8 QTY 14 end plate
PL20 180 x 880 x 20 S275
Mass 24.9 kg each (holes not taken off)
Holes: 24 Written by Stratal CAD Structural Steel



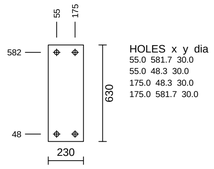
HOLES x y dia
60.0 89.4 22.0
60.0 159.4 22.0
60.0 229.4 22.0
60.0 299.4 22.0
60.0 369.4 22.0
120.0 89.4 22.0
120.0 159.4 22.0
120.0 229.4 22.0
120.0 299.4 22.0
120.0 369.4 22.0

PLATE P7 QTY 14 apex plate
PL20 180 x 405 x 20 S275
Mass 11.4 kg each (holes not taken off)
Holes: 10 Written by Stratal CAD Structural Steel



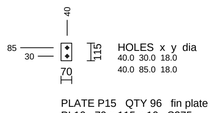
HOLES x y dia
40.0 55.0 18.0
95.0 55.0 18.0

PLATE P1 QTY 16 gusset
PL10 125 x 130 x 10 S275
Mass 1.3 kg each (holes not taken off)
Holes: 2 Written by Stratal CAD Structural Steel



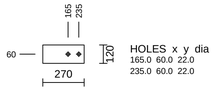
HOLES x y dia
55.0 581.7 30.0
55.0 48.3 30.0
175.0 48.3 30.0
175.0 581.7 30.0

PLATE P10 QTY 14 base plate
PL30 230 x 630 x 30 S275
Mass 34.1 kg each (holes not taken off)
Holes: 4 Written by Stratal CAD Structural Steel



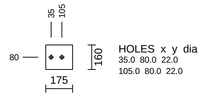
HOLES x y dia
40.0 30.0 18.0
40.0 85.0 18.0

PLATE P15 QTY 96 fin plate
PL10 70 x 115 x 10 S275
Mass 0.6 kg each (holes not taken off)
Holes: 2 Written by Stratal CAD Structural Steel



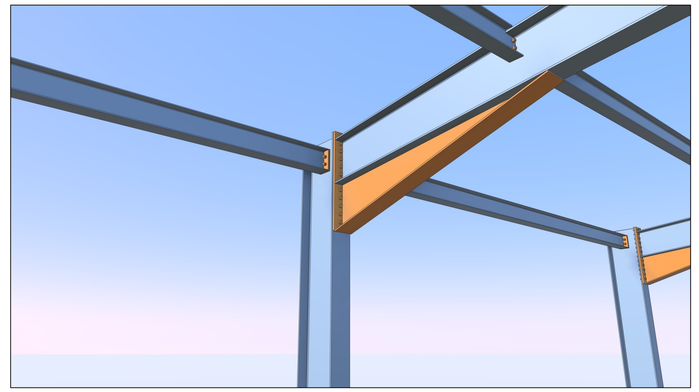
HOLES x y dia
165.0 60.0 22.0
235.0 60.0 22.0

PLATE P12 QTY 8 knife plate
PL10 270 x 120 x 10 S275
Mass 2.5 kg each (holes not taken off)
Holes: 2 Written by Stratal CAD Structural Steel

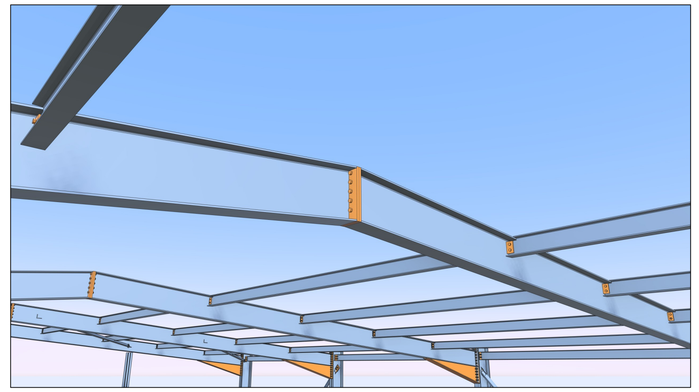


HOLES x y dia
35.0 80.0 22.0
105.0 80.0 22.0

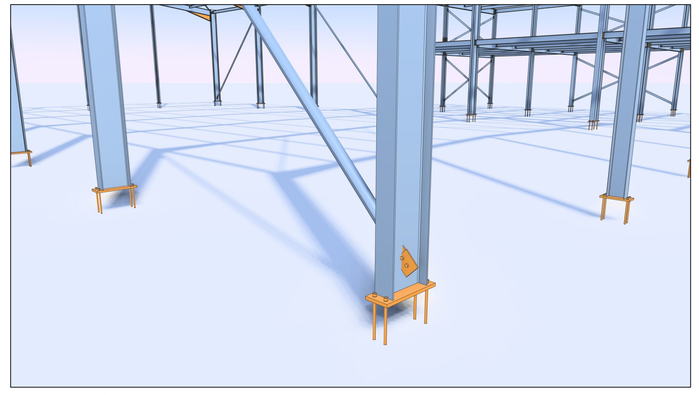
PLATE P6 QTY 8 gusset
PL10 175 x 160 x 10 S275
Mass 2.2 kg each (holes not taken off)
Holes: 2 Written by Stratal CAD Structural Steel



Eaves: haunch, end plate, 24 x M20.



Apex plates and purlin fin plates.



CHS brace on a knife plate, base plate.

NOTES

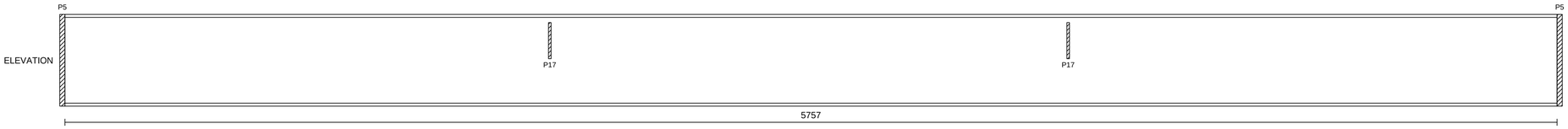
1. Fabrication drawings by STLSHOP at 1:20: rafter B20 (6 off), portal column C9 (3 off), CHS wall brace V1, angle roof brace V6, and the plates P8 eaves, P7 apex, P10 base, P12 knife, P6 and P1 gussets, P15 purlin fin.
2. Rafters are cut plumb at both ends (6 degrees, in the NC1 header); haunches (2000 x 403, cut from the rafter section) are in the take-off and cut list, not on STLSHOP sheets.
3. Renders: the eaves haunch and end plate, the apex plates, a knife-plate brace end at a base plate.
4. Structural Steel checks that things fit, not that they carry load; the beam check is a design aid.
5. Demonstration drawing of a fictional job: not for manufacture or construction.

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TITLE
PORTAL FRAME FABRICATION
RAFTER, COLUMN, BRACES AND PLATES

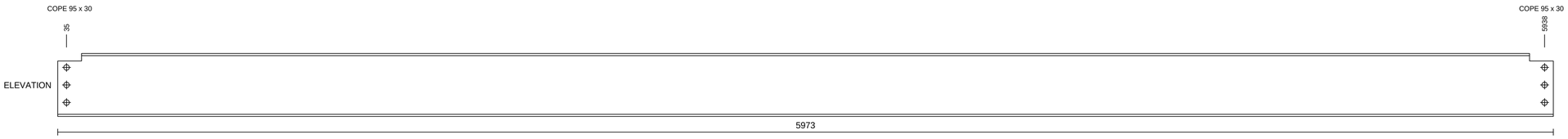
PROJECT		DRAWN	
Unit 4 Osprey Way, Larkfield (fictional)		Stratal CAD demo	
DRAWING NO.	SHEET	SCALE	SIZE
STR-STL-104	4 of 7	1:20	A1
SOFTWARE		DATE	
Stratal CAD 0.1.8, Structural Steel 0.7.0		12 Nov 2026	

STATUS
DEMONSTRATION DRAWING - NOT FOR MANUFACTURE



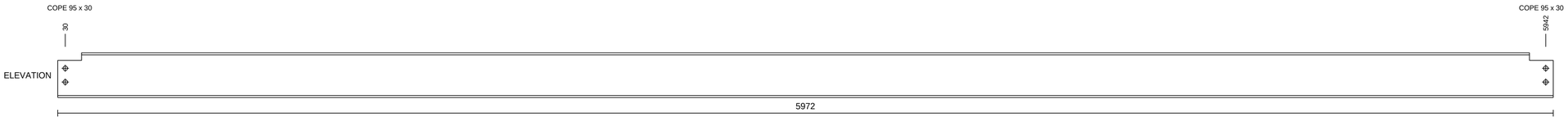
HOLES face x y dia
none

MARK B14 QTY 2 beam
UKB356x171x51 S355 L = 5757 mm
Mass 314.5 kg each (293.6 kg section, 20.9 kg plates)
P17 2 x fin plate 80 x 140 x 10 S275
P5 2 x end plate 172 x 355 x 20 S275
Holes: 0 Written by Stratal CAD Structural Steel



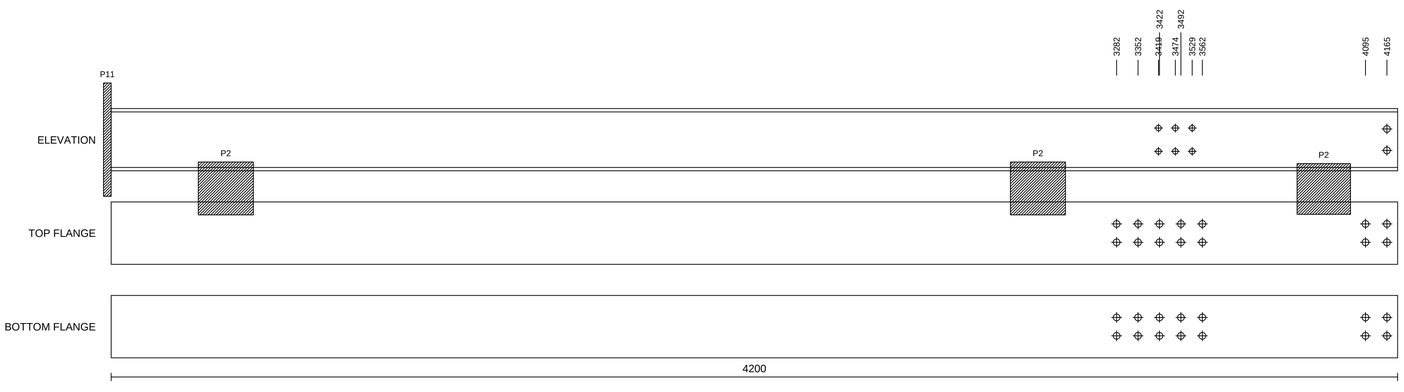
HOLES face x y dia
v 35.0 55.7 22.0
v 35.0 125.7 22.0
v 35.0 195.7 22.0
v 5937.6 55.7 22.0
v 5937.6 125.7 22.0
v 5937.6 195.7 22.0

MARK B8 QTY 10 beam
UKB254x146x31 S355 L = 5973 mm
Mass 185.7 kg each (185.7 kg section, 0.0 kg plates)
Holes: 6 Written by Stratal CAD Structural Steel



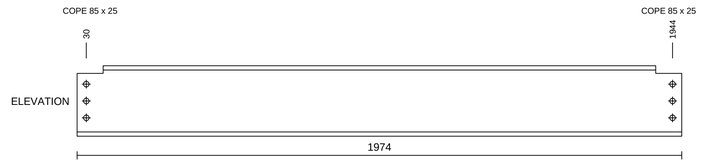
HOLES face x y dia
v 30.0 61.4 18.0
v 30.0 116.4 18.0
v 5942.3 61.4 18.0
v 5942.3 116.4 18.0

MARK B2 QTY 48 beam
UKB178x102x19 S355 L = 5972 mm
Mass 113.5 kg each (113.5 kg section, 0.0 kg plates)
Holes: 4 Written by Stratal CAD Structural Steel



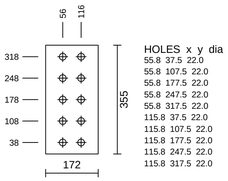
HOLES face x y dia
o 3282.5 71.8 22.0
o 3282.5 131.8 22.0
o 3352.5 71.8 22.0
o 3352.5 131.8 22.0
o 3422.5 71.8 22.0
o 3422.5 131.8 22.0
o 3492.5 71.8 22.0
o 3492.5 131.8 22.0
o 3562.5 71.8 22.0
o 3562.5 131.8 22.0
o 4095.0 71.8 22.0
o 4095.0 131.8 22.0
o 4165.0 71.8 22.0
o 4165.0 131.8 22.0
u 3282.5 71.8 22.0
u 3282.5 131.8 22.0
u 3352.5 71.8 22.0
u 3352.5 131.8 22.0
u 3422.5 71.8 22.0
u 3422.5 131.8 22.0
u 3492.5 71.8 22.0
u 3492.5 131.8 22.0
u 3562.5 71.8 22.0
u 3562.5 131.8 22.0
u 4095.0 71.8 22.0
u 4095.0 131.8 22.0
u 4165.0 71.8 22.0
u 4165.0 131.8 22.0
v 3419.3 63.6 18.0
v 3419.3 139.6 18.0
v 3474.3 63.6 18.0
v 3474.3 139.6 18.0
v 3529.3 63.6 18.0
v 3529.3 139.6 18.0
v 4165.0 66.6 22.0
v 4165.0 136.6 22.0

MARK C13 QTY 1 column
UKC203x203x46 S355 L = 4200 mm
Mass 215.9 kg each (193.6 kg section, 22.3 kg plates)
P11 1 x base plate 250 x 370 x 25 S275
P2 3 x gusset 125 x 140 x 10 S275
Holes: 36 Written by Stratal CAD Structural Steel



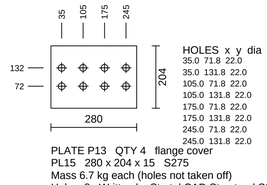
HOLES face x y dia
v 30.0 60.0 18.0
v 30.0 115.0 18.0
v 30.0 170.0 18.0
v 1944.0 60.0 18.0
v 1944.0 115.0 18.0
v 1944.0 170.0 18.0

MARK B1 QTY 1 beam
PFC230x90x32 S275 L = 1974 mm
Mass 64.0 kg each (64.0 kg section, 0.0 kg plates)
Holes: 6 Written by Stratal CAD Structural Steel



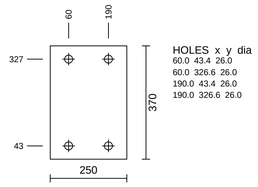
HOLES x y dia
55.8 37.5 22.0
55.8 107.5 22.0
55.8 177.5 22.0
55.8 247.5 22.0
55.8 317.5 22.0
115.8 37.5 22.0
115.8 107.5 22.0
115.8 177.5 22.0
115.8 247.5 22.0
115.8 317.5 22.0

PLATE P5 QTY 32 end plate
PL20 172 x 355 x 20 S275
Mass 9.6 kg each (holes not taken off)
Holes: 10 Written by Stratal CAD Structural Steel



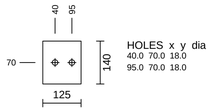
HOLES x y dia
35.0 71.8 22.0
35.0 131.8 22.0
105.0 71.8 22.0
105.0 131.8 22.0
175.0 71.8 22.0
175.0 131.8 22.0
245.0 71.8 22.0
245.0 131.8 22.0

PLATE P13 QTY 4 flange cover
PL15 280 x 204 x 15 S275
Mass 6.7 kg each (holes not taken off)
Holes: 8 Written by Stratal CAD Structural Steel



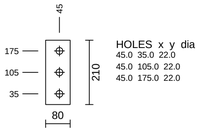
HOLES x y dia
60.0 43.4 26.0
60.0 326.6 26.0
190.0 43.4 26.0
190.0 326.6 26.0

PLATE P11 QTY 8 base plate
PL25 250 x 370 x 25 S275
Mass 18.2 kg each (holes not taken off)
Holes: 4 Written by Stratal CAD Structural Steel



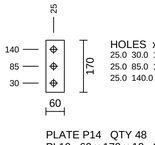
HOLES x y dia
40.0 70.0 18.0
95.0 70.0 18.0

PLATE P2 QTY 24 gusset
PL10 125 x 140 x 10 S275
Mass 1.4 kg each (holes not taken off)
Holes: 2 Written by Stratal CAD Structural Steel



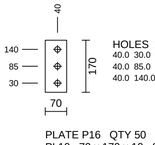
HOLES x y dia
45.0 35.0 22.0
45.0 105.0 22.0
45.0 175.0 22.0

PLATE P18 QTY 36 fin plate
PL10 80 x 210 x 10 S275
Mass 1.3 kg each (holes not taken off)
Holes: 3 Written by Stratal CAD Structural Steel



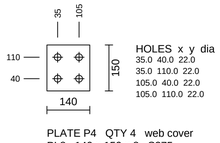
HOLES x y dia
25.0 30.0 18.0
25.0 85.0 18.0
25.0 140.0 18.0

PLATE P14 QTY 48 cleat leg
PL10 60 x 170 x 10 S275
Mass 0.8 kg each (holes not taken off)
Holes: 3 Written by Stratal CAD Structural Steel



HOLES x y dia
40.0 30.0 18.0
40.0 85.0 18.0
40.0 140.0 18.0

PLATE P16 QTY 50 cleat leg
PL10 70 x 170 x 10 S275
Mass 0.9 kg each (holes not taken off)
Holes: 3 Written by Stratal CAD Structural Steel



HOLES x y dia
35.0 40.0 22.0
35.0 110.0 22.0
105.0 40.0 22.0
105.0 110.0 22.0

PLATE P4 QTY 4 web cover
PL8 140 x 150 x 8 S275
Mass 1.3 kg each (holes not taken off)
Holes: 4 Written by Stratal CAD Structural Steel

NOTES

1. Fabrication drawings by STLSHOP at 1:10: roof primary B14 (end plates), floor secondary B8 (copes, fin plate holes), purlin B2 (48 off), stair trimmer B1 (channel), column C13 (lower length of the spliced column 7/C).
2. Plates: P5 end plate, P13 and P4 splice covers, P11 base, P2 gusset, P18 fin, P14 and P16 web cleat legs.
3. Hole tables: face v web, o top flange, u bottom flange; x from the piece's start.
4. Structural Steel checks that things fit, not that they carry load; the beam check is a design aid.
5. Demonstration drawing of a fictional job: not for manufacture or construction.

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TITLE
OFFICE FRAME FABRICATION
BEAMS, SPLICED COLUMN AND PLATES

PROJECT		DRAWN	
Unit 4 Osprey Way, Larkfield (fictional)		Stratal CAD demo	
DRAWING NO.	SHEET	SCALE	SIZE
STR-STL-105	5 of 7	1:10	A1
SOFTWARE		DATE	
Stratal CAD 0.1.8, Structural Steel 0.7.0		12 Nov 2026	

STATUS
DEMONSTRATION DRAWING - NOT FOR MANUFACTURE

MEMBER SCHEDULE (STLSCHED)

Mark	Kind	Section	Grade	Length (mm)	Mass (kg/m)	Unit mass (kg)	Quantity	Total mass (kg)
B1	beam	PFC230x90x32	S275	1974	32.4	64.0	1	64.0
B2	beam	UKB178x102x19	S355	5972	19.0	113.5	48	5446.7
B3	beam	UKB203x133x25	S355	5952	25.1	149.4	12	1792.6
B4	beam	UKB203x133x25	S355	5973	25.1	149.9	12	1798.9
B5	beam	UKB254x146x31	S355	5971	31.1	185.7	4	742.9
B6	beam	UKB254x146x31	S355	5972	31.1	185.7	2	371.4
B7	beam	UKB254x146x31	S355	5973	31.1	185.8	12	2229.0
B8	beam	UKB254x146x31	S355	5973	31.1	185.7	10	1857.5
B9	beam	UKB254x146x31	S355	5973	31.1	185.7	2	371.5
B10	beam	UKB356x171x51	S355	5632	51.0	287.2	2	574.4
B11	beam	UKB356x171x51	S355	5632	51.0	287.2	2	574.4
B12	beam	UKB356x171x51	S355	5632	51.0	287.2	2	574.4
B13	beam	UKB356x171x51	S355	5632	51.0	287.2	2	574.4
B14	beam	UKB356x171x51	S355	5757	51.0	293.6	2	587.2
B15	beam	UKB356x171x51	S355	5757	51.0	293.6	2	587.2
B16	beam	UKB356x171x51	S355	5757	51.0	293.6	2	587.2
B17	beam	UKB356x171x51	S355	5757	51.0	293.6	2	587.2
B18	beam	UKB406x178x54	S355	9787	54.1	529.5	4	2117.9
B19	beam	UKB406x178x54	S355	9787	54.1	529.5	4	2117.9
B20	beam	UKB406x178x54	S355	9787	54.1	529.5	6	3176.8
C1	column	UKB254x146x31	S355	7090	31.1	220.5	4	882.0
C2	column	UKB254x146x31	S355	7600	31.1	236.4	2	472.7
C3	column	UKB457x191x67	S355	7096	67.1	476.1	1	476.1
C4	column	UKB457x191x67	S355	7096	67.1	476.1	2	952.3
C5	column	UKB457x191x67	S355	7096	67.1	476.1	1	476.1
C6	column	UKB457x191x67	S355	7096	67.1	476.1	2	952.3
C7	column	UKB457x191x67	S355	7096	67.1	476.1	1	476.1
C8	column	UKB457x191x67	S355	7096	67.1	476.1	2	952.3
C9	column	UKB457x191x67	S355	7096	67.1	476.1	3	1428.4
C10	column	UKB457x191x67	S355	7096	67.1	476.1	2	952.3
C11	column	UKC203x203x46	S355	2400	46.1	110.6	1	110.6
C12	column	UKC203x203x46	S355	2400	46.1	110.6	1	110.6
C13	column	UKC203x203x46	S355	4200	46.1	193.6	1	193.6
C14	column	UKC203x203x46	S355	4200	46.1	193.6	1	193.6
C15	column	UKC203x203x46	S355	6600	46.1	304.3	1	304.3
C16	column	UKC203x203x46	S355	6600	46.1	304.3	2	608.5
C17	column	UKC203x203x46	S355	6600	46.1	304.3	2	608.5
C18	column	UKC203x203x46	S355	6600	46.1	304.3	1	304.3
V1	brace	CHS114.3x5	S355	8587	13.5	115.7	4	462.9
V2	brace	FL100x10	S355	6153	7.9	48.3	4	193.2
V3	brace	FL100x10	S355	6362	7.9	49.9	2	99.9
V4	brace	FL100x10	S355	6375	7.9	50.0	4	200.2
V5	brace	FL100x10	S355	6591	7.9	51.7	2	103.5
V6	brace	L90x90x9	S355	7420	12.3	91.2	2	182.3
V7	brace	L90x90x9	S355	7420	12.3	91.2	2	182.3
V8	brace	L90x90x9	S355	7581	12.3	93.1	2	186.3
V9	brace	L90x90x9	S355	7581	12.3	93.1	2	186.3
Total							187	38985.3

TAKE-OFF (STLTAKEOFF)

Group	Item	Quantity	Unit	Mass (kg)
Grade	S275	2034.8	kg	2034.8
Grade	S355	39705.0	kg	39705.0
Section	CHS114.3x5	34.35	m	462.9
Section	FL100x10	76.02	m	596.7
Section	L90x90x9	60.01	m	737.2
Section	PFC230x90x32	1.97	m	64.0
Section	UKB178x102x19	286.67	m	5446.7
Section	UKB203x133x25	143.09	m	3591.5
Section	UKB254x146x31	222.73	m	6927.0
Section	UKB356x171x51	91.11	m	4646.5
Section	UKB406x178x54	137.02	m	7412.6
Section	UKB457x191x67	99.34	m	6665.9
Section	UKC203x203x46	52.80	m	2434.1
Plates	PL10 S275	310	pcs	305.7
Plates	PL15 S275	4	pcs	26.9
Plates	PL20 S275	84	pcs	916.0
Plates	PL25 S275	14	pcs	239.2
Plates	PL30 S275	14	pcs	477.7
Plates	PL8 S275	4	pcs	5.3
Haunches	Haunch from UKB406x178x54	14	pcs	783.8
Bolts	M16x40 8.8 bolt, nut, 2 washers	192	pcs	
Bolts	M16x45 8.8 bolt, nut, 2 washers	230	pcs	
Bolts	M16x55 8.8 bolt, nut, 2 washers	72	pcs	
Bolts	M20x400 anchor 8.8	56	pcs	
Bolts	M20x45 8.8 bolt, nut, 2 washers	156	pcs	
Bolts	M20x50 8.8 bolt, nut, 2 washers	16	pcs	
Bolts	M20x55 8.8 bolt, nut, 2 washers	40	pcs	
Bolts	M20x60 8.8 bolt, nut, 2 washers	336	pcs	
Bolts	M20x65 8.8 bolt, nut, 2 washers	416	pcs	
Bolts	M20x70 8.8 bolt, nut, 2 washers	70	pcs	
Bolts	M24x400 anchor 8.8	56	pcs	
Welds	Fillet a6	276.83	m	
Paint	Members	1198.72	m2	
Paint	Plates	26.58	m2	
Total	Steel	41739.9	kg	41739.9

CUT LIST (STLCUT: 6, 9, 12 m stock, offcuts first)

Bars	Section	Grade	Stock (mm)	Pieces per bar	Used (mm)	Offcut (mm)	Yield (%)	From
4	CHS114.3x5	S355	9000	V1 8587	8587	413	95.4	new bar
2	FL100x10	S355	9000	V5 6591	6591	2409	73.2	new bar
4	FL100x10	S355	9000	V4 6375	6375	2625	70.8	new bar
2	FL100x10	S355	9000	V3 6362	6362	2638	70.7	new bar
4	FL100x10	S355	9000	V2 6153	6153	2847	68.4	new bar
2	L90x90x9	S355	9000	V8 7581	7581	1419	84.2	new bar
2	L90x90x9	S355	9000	V9 7581	7581	1419	84.2	new bar
2	L90x90x9	S355	9000	V6 7420	7420	1580	82.4	new bar
2	L90x90x9	S355	9000	V7 7420	7420	1580	82.4	new bar
1	PFC230x90x32	S275	6000	B1 1974	1974	4026	32.9	new bar
24	UKB178x102x19	S355	12000	B2 5972 + B2 5972	11948	52	99.5	new bar
6	UKB203x133x25	S355	12000	B4 5973 + B4 5973	11948	52	99.5	new bar
6	UKB203x133x25	S355	12000	B3 5952 + B3 5952	11906	94	99.2	new bar
2	UKB254x146x31	S355	6100	B7 5973	5973	127	97.9	offcut in stock
2	UKB254x146x31	S355	9000	C2 7600	7600	1400	84.4	new bar
4	UKB254x146x31	S355	9000	C1 7090	7090	1910	78.8	new bar
5	UKB254x146x31	S355	12000	B7 5973 + B7 5973	11949	51	99.5	new bar
1	UKB254x146x31	S355	12000	B9 5973 + B9 5973	11948	52	99.5	new bar
5	UKB254x146x31	S355	12000	B8 5973 + B8 5973	11948	52	99.5	new bar
1	UKB254x146x31	S355	12000	B6 5972 + B6 5972	11946	54	99.5	new bar
2	UKB254x146x31	S355	12000	B5 5971 + B5 5971	11946	54	99.5	new bar
1	UKB356x171x51	S355	12000	B16 5757 + B16 5757	11517	483	95.9	new bar
1	UKB356x171x51	S355	12000	B17 5757 + B17 5757	11517	483	95.9	new bar
1	UKB356x171x51	S355	12000	B14 5757 + B14 5757	11517	483	95.9	new bar
1	UKB356x171x51	S355	12000	B15 5757 + B15 5757	11517	483	95.9	new bar
1	UKB356x171x51	S355	12000	B12 5632 + B12 5632	11266	734	93.9	new bar
1	UKB356x171x51	S355	12000	B13 5632 + B13 5632	11266	734	93.9	new bar
1	UKB356x171x51	S355	12000	B10 5632 + B10 5632	11266	734	93.9	new bar
1	UKB356x171x51	S355	12000	B11 5632 + B11 5632	11266	734	93.9	new bar
4	UKB406x178x54	S355	12000	B18 9787 + H1 2000	11790	210	98.2	new bar
3	UKB406x178x54	S355	12000	B19 9787 + H1 2000	11790	210	98.2	new bar
1	UKB406x178x54	S355	12000	B19 9787	9787	2213	81.6	new bar
6	UKB406x178x54	S355	12000	B20 9787	9787	2213	81.6	new bar
1	UKB457x191x67	S355	9000	C3 7096	7096	1904	78.8	new bar
2	UKB457x191x67	S355	9000	C4 7096	7096	1904	78.8	new bar
1	UKB457x191x67	S355	9000	C5 7096	7096	1904	78.8	new bar
2	UKB457x191x67	S355	9000	C6 7096	7096	1904	78.8	new bar
1	UKB457x191x67	S355	9000	C7 7096	7096	1904	78.8	new bar
2	UKB457x191x67	S355	9000	C8 7096	7096	1904	78.8	new bar
3	UKB457x191x67	S355	9000	C9 7096	7096	1904	78.8	new bar
2	UKB457x191x67	S355	9000	C10 7096	7096	1904	78.8	new bar
1	UKC203x203x46	S355	4300	C13 4200	4200	100	97.7	offcut in stock
1	UKC203x203x46	S355	12000	C15 6600 + C14 4200	10803	1197	90.0	new bar
1	UKC203x203x46	S355	12000	C16 6600 + C11 2400 + C12 2400	11406	594	95.0	new bar
1	UKC203x203x46	S355	12000	C16 6600	6600	5400	55.0	new bar
2	UKC203x203x46	S355	12000	C17 6600	6600	5400	55.0	new bar
1	UKC203x203x46	S355	12000	C18 6600	6600	5400	55.0	new bar
126	Total		1354500			135394	90.0	

CONNECTIONS (counted from the plugin's connection objects)

Connection	Bolts	Layout	Plate (mm)	Plate grade	Count
Apex plates	M20 8.8	5 rows x 2	180 x 405 x 20	S275	7
Base plate	M20 8.8	4 anchors x 400	190 x 420 x 25	S275	6
Base plate	M24 8.8	4 anchors x 400	230 x 630 x 30	S275	14
Base plate	M20 8.8	4 anchors x 400	250 x 370 x 25	S275	8
Column splice	M20 8.8	16 + 4 bolts	flange covers 280 x 204 x 15, web covers 140 x 150 x 8	S275	2
Cope (top)	-	-	-	-	146
Eaves end plate + haunch	M20 8.8	12 rows x 2	180 x 880 x 20, haunch 2000 x 403	S275	14
End plate	M20 8.8	2 rows x 2	133 x 203 x 20	S275	24
End plate	M20 8.8	5 rows x 2	172 x 355 x 20	S275	32
Fin plate	M16 8.8	2 rows x 1	70 x 115 x 10	S275	96
Fin plate	M16 8.8	3 rows x 1	70 x 170 x 10	S275	2
Fin plate	M20 8.8	2 rows x 1	80 x 140 x 10	S275	24
Fin plate	M20 8.8	3 rows x 1	80 x 210 x 10	S275	36
Gusset	M16 8.8	1 rows x 2	125 x 130 x 10	S275	16
Gusset	M16 8.8	1 rows x 2	125 x 140 x 10	S275	24
Knife plate (CHS)	M20 8.8	1 rows x 2	270 x 160 x 10	S275	8
Web cleats	M16 8.8	3 rows x 1	70 x 170 x 10	S275	24
Total					483

SECTION PROPERTIES (STLSECTION; cm units)

Section	Family	Mass (kg/m)	Area (cm2)	Iy (cm4)	Iz (cm4)	Wel,y (cm3)	Wel,z (cm3)	Wpl,y (cm3)	Wpl,z (cm3)	iy (cm)	iz (cm)
UKB457x191x67	UKB	67.1	85.51	29380.4	1452.1	1296.0	152.9	1471.0	237.3	18.54	4.12
UKB406x178x54	UKB	54.1	68.95	18722.3	1021.2	930.1	114.9	1054.6	178.3	16.48	3.85
UKB254x146x31	UKB	31.1	39.68	4413.4	447.5	351.1	61.3	393.1	94.1	10.55	3.36
UKB203x133x25	UKB	25.1	31.97	2340.2	307.6	230.3	46.2	257.7	70.9	8.56	3.10
UKB178x102x19	UKB	19.0	24.26	1356.0	136.7	152.5	27.0	171.3	41.6	7.48	2.37
CHS114.3x5	CHS	13.5	17.17	256.9	256.9	44.9	44.9	59.8	59.8	3.87	3.87
L90x90x9	L	12.3	15.65	118.6	118.6	18.4	18.4	33.2	33.2	2.75	2.75
UKC203x203x46	UKC	46.1	58.73	4567.8	1548.2	449.6	152.1	497.4	230.9	8.82	5.13
UKB356x171x51	UKB	51.0	64.91	14136.0	968.3	796.4	112.9	896.0	174.2	14.76	3.86
PFC230x90x32	PFC	32.4	41.32	3550.8	335.2	308.8	55.0	358.1	99.3	9.27	2.85
FL100x10	FL	7.9	10.00	83.3	0.8	16.7	1.7	25.0	2.5	2.89	0.29

NOTES

1. Member schedule: STLSCHED. Take-off: STLTAKEOFF. Both tables are the plugin's CSV files as written.
2. Cut list: STLCUT with 6, 9 and 12 m stock, 3 mm saw cut and three offcuts in stock (my inputs); identical bars are counted on one row. H1 is a haunch length.
3. Marks: STLMARK gives pieces one mark only when length, cuts, holes and welded plates all match.
4. Structural Steel checks that things fit, not that they carry load; the beam check is a design aid.
5. Demonstration drawing of a fictional job: not for manufacture or construction.

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TITLE
SCHEDULES
MEMBERS, TAKE-OFF, CONNECTIONS, CUT LIST

PROJECT	DRAWN
Unit 4 Osprey Way, Larkfield (fictional)	Stratal CAD demo

DRAWING NO.	SHEET	SCALE	SIZE
STR-STL-106	6 of 7	NTS	A1

SOFTWARE	DATE
Stratal CAD 0.1.8, Structural Steel 0.7.0	12 Nov 2026

STATUS
DEMONSTRATION DRAWING - NOT FOR MANUFACTURE

BEAM CHECK (STLBEAMCHECK): DESIGN AID, EXAMPLE LOADS

Beams	Group	Mark	Section	Span (mm)	ULS (kN/m)	SLS (kN/m)	Class	fy	MEd (kNm)	McRd (kNm)	Bending	VEd (kN)	VcRd (kN)	Shear	Defl. (mm)	Limit (mm)	Defl. ratio	Result
2	Floor secondaries	B9	UKB254x146x31	5973	21.50	8.00	1	355	95.9	139.5	0.687	64.2	336.0	0.191	14.3	16.6	0.862	pass
10	Floor secondaries	B8	UKB254x146x31	5973	21.50	8.00	1	355	95.9	139.5	0.687	64.2	336.0	0.191	14.3	16.6	0.862	pass
2	Floor primaries	B12	UKB356x171x51	5632	64.40	24.00	1	355	255.3	318.1	0.803	181.3	587.2	0.309	10.6	15.6	0.677	pass
2	Floor primaries	B16	UKB356x171x51	5757	64.40	24.00	1	355	266.8	318.1	0.839	185.4	587.2	0.316	11.6	16.0	0.723	pass
2	Floor primaries	B13	UKB356x171x51	5632	64.40	24.00	1	355	255.3	318.1	0.803	181.3	587.2	0.309	10.6	15.6	0.677	pass
2	Floor primaries	B17	UKB356x171x51	5757	64.40	24.00	1	355	266.8	318.1	0.839	185.4	587.2	0.316	11.6	16.0	0.723	pass
12	Roof secondaries	B4	UKB203x133x25	5973	6.30	1.50	1	355	28.1	91.5	0.307	18.8	263.4	0.071	5.1	16.6	0.305	pass
2	Roof primaries	B10	UKB356x171x51	5632	18.90	4.50	1	355	74.9	318.1	0.236	53.2	587.2	0.091	2.0	15.6	0.127	pass
2	Roof primaries	B14	UKB356x171x51	5757	18.90	4.50	1	355	78.3	318.1	0.246	54.4	587.2	0.093	2.2	16.0	0.136	pass
2	Roof primaries	B11	UKB356x171x51	5632	18.90	4.50	1	355	74.9	318.1	0.236	53.2	587.2	0.091	2.0	15.6	0.127	pass
2	Roof primaries	B15	UKB356x171x51	5757	18.90	4.50	1	355	78.3	318.1	0.246	54.4	587.2	0.093	2.2	16.0	0.136	pass
48	Purlins	B2	UKB178x102x19	5972	2.90	1.20	1	355	12.9	60.8	0.213	8.7	202.7	0.043	7.0	16.6	0.421	pass
1	Overload example	B9	UKB254x146x31	5973	40.00	20.00	1	355	178.4	139.5	1.278	119.5	336.0	0.356	35.8	16.6	2.155	fail
1	Overload example	B8	UKB254x146x31	5973	40.00	20.00	1	355	178.4	139.5	1.278	119.5	336.0	0.356	35.8	16.6	2.155	fail

MODEL CHECK AND TOTALS

STLAUDIT: no findings (model-check.csv has no rows): no duplicate, short or unmarked members, no missing solids, no unsupported or unconnected ends, every column on a base.
STLCHECK: 483 connections: 479 up to date, 4 updated, 0 removed.
STLMARK: 47 marks for 187 members; 187 changed. 18 plate marks for 430 plates.
STLLIST: 187 members, 38985.3 kg (members), 41624.5 kg with welded plates and haunches.
Centre of gravity: 16454, 14555, 5536 mm (members only).
STLTAKEOFF total: 41739.9 kg (members, plates, haunches).
STLNC: 65 NC1 files (47 pieces, 18 plates, 1442 holes); 5 carry cope contours (AK), 12 carry end cuts at angles.

DSTV NC1: B20.nc1

```
ST
** (comment line: see the file)
 -
 -
 1
 B20
 S355
 6
 UKB406X178X54
 I
 9786.91
 402.60
 177.70
 10.90
 7.70
 10.20
 54.100
 1.501
 6.000
 -6.000
 0.000
 0.000
 -
 -
 -
 -
EN
```

DSTV NC1: V6.nc1

```
ST
** (comment line: see the file)
 -
 -
 1
 V6
 S355
 2
 L90X90X9
 L
 7420.37
 90.00
 90.00
 9.00
 9.00
 11.00
 12.285
 0.360
 3.557
 -3.557
 -36.307
 36.307
 -
 -
 -
 -
BO
 v   30.00    55.00  18.00
 v   85.00    55.00  18.00
 v  7335.37    55.00  18.00
 v  7390.37    55.00  18.00
EN
```

DSTV NC1: B2.nc1

```
ST
** (comment line: see the file)
 -
 -
 1
 B2
 S355
 48
 UKB178X102X19
 I
 5972.30
 177.80
 101.20
 7.90
 4.80
 7.60
 19.000
 0.751
 0.000
 0.000
 0.000
 0.000
 -
 -
 -
 -
AK
 v    0.00     0.00   0.00
 v  5972.30     0.00   0.00
 v  5972.30   147.80   0.00
 v  5877.30   147.80   0.00
 v  5877.30   177.80   0.00
 v    95.00   177.80   0.00
 v    95.00   147.80   0.00
 v     0.00   147.80   0.00
 v     0.00     0.00   0.00
BO
 v    30.00    61.40  18.00
 v    30.00   116.40  18.00
 v  5942.30    61.40  18.00
 v  5942.30   116.40  18.00
EN
```

PLATES (STLSHOP 1:10; NC1 files P3, P9, P17)

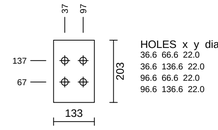


PLATE P3 QTY 24 end plate
PL20 133 x 203 x 20 S275
Mass 4.2 kg each (holes not taken off)
Holes: 4 Written by Stratal CAD Structural Steel

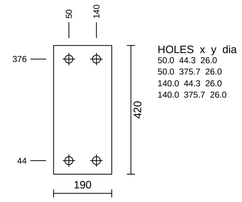


PLATE P9 QTY 6 base plate
PL25 190 x 420 x 25 S275
Mass 15.7 kg each (holes not taken off)
Holes: 4 Written by Stratal CAD Structural Steel

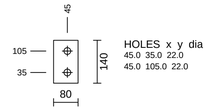
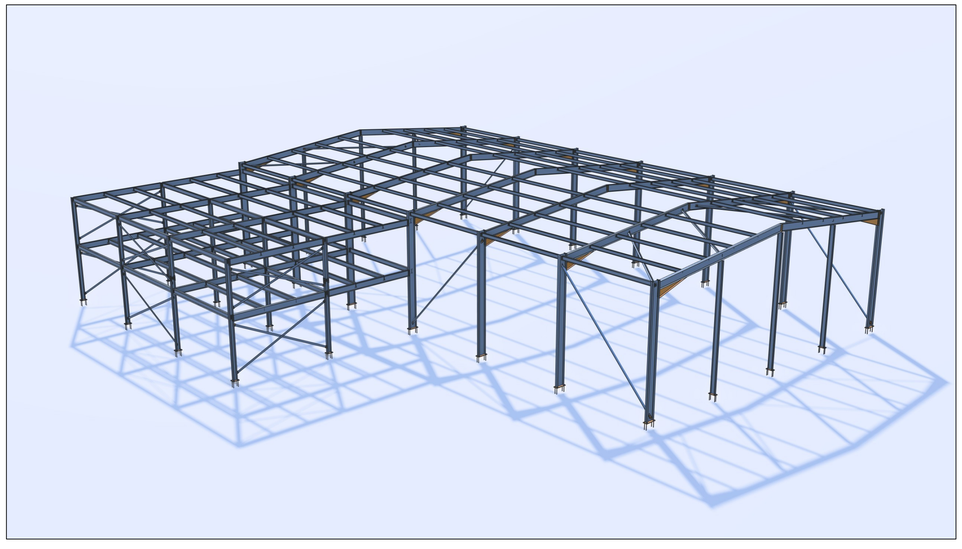


PLATE P17 QTY 24 fin plate
PL10 80 x 140 x 10 S275
Mass 0.9 kg each (holes not taken off)
Holes: 2 Written by Stratal CAD Structural Steel

CUT LIST WITH 12 m STOCK ONLY (STLCUT), FOR COMPARISON

Bars	Section	Grade	Stock (mm)	Pieces per bar	Used (mm)	Offcut (mm)	Yield (%)	From
4	CHS114.3x5	S355	12000	V1 8587	8587	3413	71.6	new bar
2	FL100x10	S355	12000	V5 6591	6591	5409	54.9	new bar
4	FL100x10	S355	12000	V4 6375	6375	5625	53.1	new bar
2	FL100x10	S355	12000	V3 6362	6362	5638	53.0	new bar
4	FL100x10	S355	12000	V2 6153	6153	5847	51.3	new bar
2	L90x90x9	S355	12000	V8 7581	7581	4419	63.2	new bar
2	L90x90x9	S355	12000	V9 7581	7581	4419	63.2	new bar
2	L90x90x9	S355	12000	V6 7420	7420	4580	61.8	new bar
2	L90x90x9	S355	12000	V7 7420	7420	4580	61.8	new bar
1	PFC230x90x32	S275	12000	B1 1974	1974	10026	16.4	new bar
24	UKB178x102x19	S355	12000	B2 5972 + B2 5972	11948	52	99.5	new bar
6	UKB203x133x25	S355	12000	B4 5973 + B4 5973	11948	52	99.5	new bar
6	UKB203x133x25	S355	12000	B3 5952 + B3 5952	11906	94	99.2	new bar
2	UKB254x146x31	S355	12000	C2 7600	7600	4400	63.3	new bar
4	UKB254x146x31	S355	12000	C1 7090	7090	4910	59.1	new bar
6	UKB254x146x31	S355	12000	B7 5973 + B7 5973	11949	51	99.5	new bar
1	UKB254x146x31	S355	12000	B9 5973 + B9 5973	11948	52	99.5	new bar
5	UKB254x146x31	S355	12000	B8 5973 + B8 5973	11948	52	99.5	new bar
1	UKB254x146x31	S355	12000	B6 5972 + B6 5972	11946	54	99.5	new bar
2	UKB254x146x31	S355	12000	B5 5971 + B5 5971	11946	54	99.5	new bar
1	UKB356x171x51	S355	12000	B16 5757 + B16 5757	11517	483	95.9	new bar
1	UKB356x171x51	S355	12000	B17 5757 + B17 5757	11517	483	95.9	new bar
1	UKB356x171x51	S355	12000	B14 5757 + B14 5757	11517	483	95.9	new bar
1	UKB356x171x51	S355	12000	B15 5757 + B15 5757	11517	483	95.9	new bar
1	UKB356x171x51	S355	12000	B12 5632 + B12 5632	11266	734	93.9	new bar
1	UKB356x171x51	S355	12000	B13 5632 + B13 5632	11266	734	93.9	new bar
1	UKB356x171x51	S355	12000	B10 5632 + B10 5632	11266	734	93.9	new bar
1	UKB356x171x51	S355	12000	B11 5632 + B11 5632	11266	734	93.9	new bar
4	UKB406x178x54	S355	12000	B18 9787 + H1 2000	11790	210	98.2	new bar
3	UKB406x178x54	S355	12000	B19 9787 + H1 2000	11790	210	98.2	new bar
1	UKB406x178x54	S355	12000	B19 9787	9787	2213	81.6	new bar
6	UKB406x178x54	S355	12000	B20 9787	9787	2213	81.6	new bar
1	UKB457x191x67	S355	12000	C3 7096	7096	4904	59.1	new bar
2	UKB457x191x67	S355	12000	C4 7096	7096	4904	59.1	new bar
1	UKB457x191x67	S355	12000	C5 7096	7096	4904	59.1	new bar
2	UKB457x191x67	S355	12000	C6 7096	7096	4904	59.1	new bar
1	UKB457x191x67	S355	12000	C7 7096	7096	4904	59.1	new bar
2	UKB457x191x67	S355	12000	C8 7096	7096	4904	59.1	new bar
3	UKB457x191x67	S355	12000	C9 7096	7096	4904	59.1	new bar
2	UKB457x191x67	S355	12000	C10 7096	7096	4904	59.1	new bar
1	UKC203x203x46	S355	12000	C15 6600 + C13 4200	10803	1197	90.0	new bar
1	UKC203x203x46	S355	12000	C16 6600 + C14 4200	10803	1197	90.0	new bar
1	UKC203x203x46	S355	12000	C16 6600 + C11 2400 + C12 2400	11406	594	95.0	new bar
2	UKC203x203x46	S355	12000	C17 6600	6600	5400	55.0	new bar
1	UKC203x203x46	S355	12000	C18 6600	6600	5400	55.0	new bar
124	Total		1488000			268894	81.9	



The frame from the north-east.

NOTES

1. Beam check: STLBEAMCHECK, simply supported, fully restrained, uniform load. Loads are example inputs: floor 3.5 dead + 4.0 imposed, roof 1.5 + 0.75, hall roof 0.35 + 0.6 kN/m2; ULS 1.35 G + 1.5 Q, SLS Q.
2. Primaries are checked with an equivalent uniform load. Rafters are refused by the check (pitched: frame analysis needed). The last two rows are a deliberate overload to show a fail.
3. Grade and class data: EN 10025-2 Table 7, EN 1993-1-1 Table 5.2, UK NA (the plugin's bundled values, print check pending).
4. NC1: the file of rafter mark B20 as STLNC wrote it.
5. Structural Steel checks that things fit, not that they carry load; the beam check is a design aid.
6. Demonstration drawing of a fictional job: not for manufacture or construction.

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TITLE
CHECKS AND NC DATA
BEAM CHECK, MODEL CHECK, DSTV NC1

PROJECT		DRAWN	
Unit 4 Osprey Way, Larkfield (fictional)		Stratal CAD demo	
DRAWING NO.	SHEET	SCALE	SIZE
STR-STL-107	7 of 7	NTS	A1
SOFTWARE		DATE	
Stratal CAD 0.1.8, Structural Steel 0.7.0		12 Nov 2026	

STATUS
DEMONSTRATION DRAWING - NOT FOR MANUFACTURE