

Cross-section 6

name	congruent base piece			sum	bounding box	checkerboard coloring		mirror image to		
	to	with numbering				sum of 3 - 4	sum of 2 - 5	sum	sum	
A1					3 x 3 x 2	3 - 4				
A2		1	2	3	3 x 3 x 2	2 - 5			A4	
A3		4	5		3 x 3 x 2	3 - 4			A6	
A4		6			3 x 3 x 2	2 - 5			A2	
A5					3 x 3 x 2	3 - 4				
A6				6	3 x 3 x 2	3 - 4	4	2	A3	2
C1					4 x 2 x 2	3 - 4			C6	
C2		2	1		4 x 2 x 2	3 - 4			C5	
C3		3			4 x 2 x 2	3 - 4			C4	
C4		4			4 x 2 x 2	3 - 4			C3	
C5		5	6		4 x 2 x 2	3 - 4			C2	
C6				6	4 x 2 x 2	3 - 4	6		C1	3
D1					4 x 2 x 2	3 - 4			D6	
D2		1			4 x 2 x 2	3 - 4			D4	
D3		2	3		4 x 2 x 2	3 - 4			D5	
D4		4	5		4 x 2 x 2	3 - 4			D2	
D5		6			4 x 2 x 2	3 - 4			D3	
D6				6	4 x 2 x 2	3 - 4	6		D1	3
E1					3 x 3 x 2	3 - 4			E6	
E2			2	1	3 x 3 x 2	3 - 4			E5	
E3		4	3		3 x 3 x 2	3 - 4				
E4			5	6	3 x 3 x 2	3 - 4				
E5					3 x 3 x 2	3 - 4			E2	
E6				6	3 x 3 x 2	3 - 4	6		E1	2
Hi F1					4 x 3 x 2	3 - 4			Hi F1b	
Hi F2			2	1	4 x 3 x 2	3 - 4			Hi F2b	
Hi F3		4	3		4 x 3 x 2	3 - 4			Hi F3b	
Hi F4			5		4 x 3 x 2	3 - 4			Hi F4b	
Hi F5			6		4 x 3 x 2	3 - 4			Hi F5b	
Hi F6					4 x 3 x 2	3 - 4			Hi F6b	
Hi F1b					4 x 3 x 2	3 - 4			Hi F1	
Hi F2b					4 x 3 x 2	3 - 4			Hi F2	
Hi F3b					4 x 3 x 2	3 - 4			Hi F3	
Hi F4b					4 x 3 x 2	3 - 4			Hi F4	
Hi F5b					4 x 3 x 2	3 - 4			Hi F5	
Hi F6b				12	4 x 3 x 2	3 - 4	12		Hi F6	6

Low F1					$4 \times 3 \times 2$	3 - 4			Low F1b	
Low F2					$4 \times 3 \times 2$	2 - 5			Low F2b	
Low F3			2	1	$4 \times 3 \times 2$	3 - 4			Low F3b	
Low F4			3		$4 \times 3 \times 2$	2 - 5			Low F4b	
Low F5		5	4		$4 \times 3 \times 2$	3 - 4			Low F5b	
Low F6			6		$4 \times 3 \times 2$	3 - 4			Low F6b	
Low F1b					$4 \times 3 \times 2$	3 - 4			Low F1	
Low F2b					$4 \times 3 \times 2$	2 - 5			Low F2	
Low F3b					$4 \times 3 \times 2$	3 - 4			Low F3	
Low F4b					$4 \times 3 \times 2$	2 - 5			Low F4	
Low F5b					$4 \times 3 \times 2$	3 - 4			Low F5	
Low F6b				12	$4 \times 3 \times 2$	3 - 4	8	4	Low F6	6
G1					$4 \times 2 \times 2$	3 - 4			G1b	
G2		2	1		$4 \times 2 \times 2$	3 - 4			G2b	
G3		3			$4 \times 2 \times 2$	3 - 4			G3b	
G4		4	5		$4 \times 2 \times 2$	3 - 4			G4b	
G5			6		$4 \times 2 \times 2$	3 - 4			G5b	
G6					$4 \times 2 \times 2$	3 - 4			G6b	
G1b					$4 \times 2 \times 2$	3 - 4			G1	
G2b					$4 \times 2 \times 2$	3 - 4			G2	
G3b					$4 \times 2 \times 2$	3 - 4			G3	
G4b					$4 \times 2 \times 2$	3 - 4			G4	
G5b					$4 \times 2 \times 2$	3 - 4			G5	
G6b				12	$4 \times 2 \times 2$	3 - 4	12		G6	6
H1					$3 \times 3 \times 2$	3 - 4			H1b	
H2		1			$3 \times 3 \times 2$	2 - 5			H2b	
H3		2	3	4	$3 \times 3 \times 2$	3 - 4			H3b	
H4		5		6	$3 \times 3 \times 2$	2 - 5			H4b	
H5					$3 \times 3 \times 2$	3 - 4			H5b	
H6					$3 \times 3 \times 2$	3 - 4			H6b	
H1b					$3 \times 3 \times 2$	3 - 4			H1	
H2b					$3 \times 3 \times 2$	2 - 5			H2	
H3b					$3 \times 3 \times 2$	3 - 4			H3	
H4b					$3 \times 3 \times 2$	2 - 5			H4	
H5b					$3 \times 3 \times 2$	3 - 4			H5	
H6b				12	$3 \times 3 \times 2$	3 - 4	8	4	H6	6
J1					$3 \times 3 \times 2$	3 - 4			J1b	
J2				1	$3 \times 3 \times 2$	3 - 4			J2b	
J3		6		2	$3 \times 3 \times 2$	3 - 4			J3b	
J4		5	4	3	$3 \times 3 \times 2$	3 - 4			J4b	
J5					$3 \times 3 \times 2$	3 - 4			J5b	
J6					$3 \times 3 \times 2$	3 - 4			J6b	
J1b					$3 \times 3 \times 2$	3 - 4			J1	
J2b					$3 \times 3 \times 2$	3 - 4			J2	
J3b					$3 \times 3 \times 2$	3 - 4			J3	
J4b					$3 \times 3 \times 2$	3 - 4			J4	
J5b					$3 \times 3 \times 2$	3 - 4			J5	
J6b				12	$3 \times 3 \times 2$	3 - 4	12		J6	6

K1						3 x 3 x 2	3 - 4			K4	
K2			1			3 x 3 x 2	3 - 4			K6	
K3		2	3	4		3 x 3 x 2	2 - 5				
K4		5	6			3 x 3 x 2	3 - 4			K1	
K5						3 x 3 x 2	2 - 5				
K6					6	3 x 3 x 2	3 - 4	4	2	K2	2
L1	L1					5 x 2 x 2	3 - 4			L1b	
L2	Hi Y6	1				5 x 2 x 2	3 - 4			L2b	
L3	Low Y6	2				5 x 2 x 2	3 - 4			L3b	
L4	Hi Y1b	3				5 x 2 x 2	3 - 4			L4b	
L5	L5b	4				5 x 2 x 2	3 - 4				
L6		5	6			5 x 2 x 2	3 - 4			L6b	
L1b	L1b					5 x 2 x 2	3 - 4			L1	
L2b	Hi Y6b					5 x 2 x 2	3 - 4			L2	
L3b	Low Y1					5 x 2 x 2	3 - 4			L3	
L4b	Hi Y1					5 x 2 x 2	3 - 4			L4	
L5b	L5										
L6b					11	5 x 2 x 2	3 - 4	11		L6	5
M1						4 x 3 x 2	3 - 4			M1b	
M2		1				4 x 3 x 2	3 - 4			M2b	
M3		2	3			4 x 3 x 2	3 - 4			M3b	
M4			4			4 x 3 x 2	3 - 4			M4b	
M5			5	6		4 x 3 x 2	3 - 4			M5b	
M6						4 x 3 x 2	3 - 4			M6b	
M1b						4 x 3 x 2	3 - 4			M1	
M2b						4 x 3 x 2	3 - 4			M2	
M3b						4 x 3 x 2	3 - 4			M3	
M4b						4 x 3 x 2	3 - 4			M4	
M5b						4 x 3 x 2	3 - 4			M5	
M6b					12	4 x 3 x 2	3 - 4	12		M6	6
Short N1						4 x 2 x 2	3 - 4			Short N1b	
Short N2			1			4 x 2 x 2	2 - 5			Short N2b	
Short N3		3	2			4 x 2 x 2	3 - 4			Short N3b	
Short N1b		5	4			4 x 2 x 2	3 - 4			Short N1	
Short N2b		6				4 x 2 x 2	2 - 5			Short N2	
Short N3b					6	4 x 2 x 2	3 - 4	4	2	Short N3	3

Long N1					5 x 2 x 2	3 - 4			Long N1b	
Long N2		1			5 x 2 x 2	3 - 4			Long N2b	
Long N3		3	2		5 x 2 x 2	3 - 4			Long N3b	
Long N4		4			5 x 2 x 2	3 - 4			Long N4b	
Long N5		5			5 x 2 x 2	3 - 4			Long N5b	
Long N6		6			5 x 2 x 2	3 - 4			Long N6b	
Long N1b					5 x 2 x 2	3 - 4			Long N1	
Long N2b					5 x 2 x 2	3 - 4			Long N2	
Long N3b					5 x 2 x 2	3 - 4			Long N3	
Long N4b					5 x 2 x 2	3 - 4			Long N4	
Long N5b					5 x 2 x 2	3 - 4			Long N5	
Long N6b				12	5 x 2 x 2	3 - 4	12		Long N6	6
O1		1	2		3 x 2 x 2	3 - 4			O2	
O2		3	4		3 x 2 x 2	3 - 4			O1	
O3		5	6	3	3 x 2 x 2	3 - 4	3			1
P1					4 x 2 x 2	3 - 4			P1b	
P2		1	2		4 x 2 x 2	3 - 4			P2b	
P3		3	4		4 x 2 x 2	3 - 4			P3b	
P4		5			4 x 2 x 2	3 - 4			P4b	
P5		6			4 x 2 x 2	3 - 4			P5b	
P6					4 x 2 x 2	3 - 4			P6b	
P1b					4 x 2 x 2	3 - 4			P1	
P2b					4 x 2 x 2	3 - 4			P2	
P3b					4 x 2 x 2	3 - 4			P3	
P4b					4 x 2 x 2	3 - 4			P4	
P5b					4 x 2 x 2	3 - 4			P5	
P6b				12	4 x 2 x 2	3 - 4	12		P6	6
Q1					3 x 3 x 2	3 - 4			Q1b	
Q2		1	2		3 x 3 x 2	3 - 4			Q2b	
Q3		3	4		3 x 3 x 2	3 - 4			Q3b	
Q4			5	6	3 x 3 x 2	3 - 4			Q4b	
Q5					3 x 3 x 2	3 - 4			Q5b	
Q6					3 x 3 x 2	3 - 4			Q6b	
Q1b					3 x 3 x 2	3 - 4			Q1	
Q2b					3 x 3 x 2	3 - 4			Q2	
Q3b					3 x 3 x 2	3 - 4			Q3	
Q4b					3 x 3 x 2	3 - 4			Q4	
Q5b					3 x 3 x 2	3 - 4			Q5	
Q6b				12	3 x 3 x 2	3 - 4	12		Q6	6

R1						$3 \times 3 \times 2$	3 - 4			R1b	
R2		1	2			$3 \times 3 \times 2$	3 - 4			R2b	
R3		3	4	5		$3 \times 3 \times 2$	3 - 4			R3b	
R4		6				$3 \times 3 \times 2$	3 - 4			R4b	
R5						$3 \times 3 \times 2$	3 - 4			R5b	
R6						$3 \times 3 \times 2$	3 - 4			R6b	
R1b						$3 \times 3 \times 2$	3 - 4			R1	
R2b						$3 \times 3 \times 2$	3 - 4			R2	
R3b						$3 \times 3 \times 2$	3 - 4			R3	
R4b						$3 \times 3 \times 2$	3 - 4			R4	
R5b						$3 \times 3 \times 2$	3 - 4			R5	
R6b					12	$3 \times 3 \times 2$	3 - 4	12		R6	6
S1						$5 \times 2 \times 2$	3 - 4			S1b	
S2			1			$5 \times 2 \times 2$	3 - 4			S2b	
S3			2			$5 \times 2 \times 2$	3 - 4			S3b	
S1b		4	3			$5 \times 2 \times 2$	3 - 4			S1	
S2b		5				$5 \times 2 \times 2$	3 - 4			S2	
S3b		6			6	$5 \times 2 \times 2$	3 - 4	6		S3	3
Short T1						$4 \times 3 \times 2$	3 - 4			Short T1b	
Short T2				1		$4 \times 3 \times 2$	3 - 4			Short T2b	
Short T3		6	5	2		$4 \times 3 \times 2$	3 - 4			Short T3b	
Short T4				3		$4 \times 3 \times 2$	3 - 4			Short T4b	
Short T5				4		$4 \times 3 \times 2$	3 - 4			Short T5b	
Short T6						$4 \times 3 \times 2$	3 - 4			Short T6b	
Short T1b						$4 \times 3 \times 2$	3 - 4			Short T1	
Short T2b						$4 \times 3 \times 2$	3 - 4			Short T2	
Short T3b						$4 \times 3 \times 2$	3 - 4			Short T3	
Short T4b						$4 \times 3 \times 2$	3 - 4			Short T4	
Short T5b						$4 \times 3 \times 2$	3 - 4			Short T5	
Short T6b					12	$4 \times 3 \times 2$	3 - 4	12		Short T6	6
Long T1						$4 \times 3 \times 2$	3 - 4			Long T3	
Long T2		1	2	3		$4 \times 3 \times 2$	2 - 5				
Long T3			4			$4 \times 3 \times 2$	3 - 4			Long T1	
Long T4			5			$4 \times 3 \times 2$	3 - 4				
Long T5			6			$4 \times 3 \times 2$	2 - 5				
Long T6					6	$4 \times 3 \times 2$	3 - 4	4	2		1

U1						$4 \times 2 \times 2$	3 - 4			U1b	
U2		2	1			$4 \times 2 \times 2$	2 - 5			U2b	
U3		3				$4 \times 2 \times 2$	3 - 4			U3b	
U4		4	5			$4 \times 2 \times 2$	2 - 5			U4b	
U5		6				$4 \times 2 \times 2$	3 - 4			U5b	
U6						$4 \times 2 \times 2$	3 - 4			U6b	
U1b						$4 \times 2 \times 2$	3 - 4			U1	
U2b						$4 \times 2 \times 2$	2 - 5			U2	
U3b						$4 \times 2 \times 2$	3 - 4			U3	
U4b						$4 \times 2 \times 2$	2 - 5			U4	
U5b						$4 \times 2 \times 2$	3 - 4			U5	
U6b					12	$4 \times 2 \times 2$	3 - 4	8	4	U6	6
V1						$4 \times 3 \times 2$	3 - 4			V1b	
V2		3	2	1		$4 \times 3 \times 2$	3 - 4			V2b	
V3		4				$4 \times 3 \times 2$	3 - 4			V3b	
V4		5				$4 \times 3 \times 2$	3 - 4			V4b	
V5		6				$4 \times 3 \times 2$	3 - 4			V5b	
V6						$4 \times 3 \times 2$	3 - 4			V6b	
V1b						$4 \times 3 \times 2$	3 - 4			V1	
V2b						$4 \times 3 \times 2$	3 - 4			V2	
V3b						$4 \times 3 \times 2$	3 - 4			V3	
V4b						$4 \times 3 \times 2$	3 - 4			V4	
V5b						$4 \times 3 \times 2$	3 - 4			V5	
V6b					12	$4 \times 3 \times 2$	3 - 4	12		V6	6
Wa1						$4 \times 3 \times 2$	3 - 4			Wa1b	
Wa2				6		$4 \times 3 \times 2$	3 - 4			Wa2b	
Wa3				5		$4 \times 3 \times 2$	3 - 4			Wa3b	
Wa4			3	4		$4 \times 3 \times 2$	3 - 4			Wa4b	
Wa5		1	2			$4 \times 3 \times 2$	3 - 4			Wa5b	
Wa6						$4 \times 3 \times 2$	3 - 4			Wa6b	
Wa1b						$4 \times 3 \times 2$	3 - 4			Wa1	
Wa2b						$4 \times 3 \times 2$	3 - 4			Wa2	
Wa3b						$4 \times 3 \times 2$	3 - 4			Wa3	
Wa4b						$4 \times 3 \times 2$	3 - 4			Wa4	
Wa5b						$4 \times 3 \times 2$	3 - 4			Wa5	
Wa6b					12	$4 \times 3 \times 2$	3 - 4	12		Wa6	6
Wb1						$4 \times 3 \times 2$	3 - 4			Wb1b	
Wb2		1				$4 \times 3 \times 2$	3 - 4			Wb2b	
Wb3		2	3			$4 \times 3 \times 2$	3 - 4			Wb3b	
Wb1b			4	5		$4 \times 3 \times 2$	3 - 4			Wb1	
Wb2b				6		$4 \times 3 \times 2$	3 - 4			Wb2	
Wb3b					6	$4 \times 3 \times 2$	3 - 4	6		Wb3	3

Wc1						4 x 3 x 2	3 - 4			Wc1b	
Wc2		1				4 x 3 x 2	2 - 5			Wc2b	
Wc3		2	3			4 x 3 x 2	3 - 4			Wc3b	
Wc4			4	5		4 x 3 x 2	2 - 5			Wc4b	
Wc5			6			4 x 3 x 2	3 - 4			Wc5b	
Wc6						4 x 3 x 2	3 - 4			Wc6b	
Wc1b						4 x 3 x 2	3 - 4			Wc1	
Wc2b						4 x 3 x 2	2 - 5			Wc2	
Wc3b						4 x 3 x 2	3 - 4			Wc3	
Wc4b						4 x 3 x 2	2 - 5			Wc4	
Wc5b						4 x 3 x 2	3 - 4			Wc5	
Wc6b					12	4 x 3 x 2	3 - 4	8	4	Wc6	6
X1						4 x 3 x 2	3 - 4				
X2			1			4 x 3 x 2	3 - 4			X4	
X3		2	3	4		4 x 3 x 2	3 - 4				
X4			5			4 x 3 x 2	3 - 4			X2	
X5			6			4 x 3 x 2	3 - 4				
X6					6	4 x 3 x 2	2 - 5	5	1		1
Italic X1			1			4 x 3 x 2	3 - 4			Italic X1b	
Italic X2			2	3		4 x 3 x 2	3 - 4			Italic X2b	
Italic X3		4	5			4 x 3 x 2	3 - 4			Italic X3b	
Italic X1b			6			4 x 3 x 2	3 - 4			Italic X1	
Italic X2b						4 x 3 x 2	3 - 4			Italic X2	
Italic X3b					6	4 x 3 x 2	3 - 4	6		Italic X3	3
Hi Y1	L4b										
Hi Y2			1			5 x 2 x 2	3 - 4			Hi Y2b	
Hi Y3	Hi Y3b	2	3			5 x 2 x 2	2 - 5				
Hi Y4	Low Y5		4			5 x 2 x 2	3 - 4			Hi Y4b	
Hi Y5	Hi Y5		5			5 x 2 x 2	2 - 5			Hi Y5b	
Hi Y6	L2		6								
Hi Y1b	L4										
Hi Y2b						5 x 2 x 2	3 - 4			Hi Y2	
Hi Y3b	Hi Y3										
Hi Y4b	Low Y2					5 x 2 x 2	3 - 4			Hi Y4	
Hi Y5b	Hi Y5b					5 x 2 x 2	2 - 5			Hi Y5	
Hi Y6b	L2b				7			4	3		3
Low Y1	L3b										
Low Y2	Hi Y4b		1								
Low Y3			2			5 x 2 x 2	3 - 4				
Low Y4		3	4			5 x 2 x 2	3 - 4				
Low Y5	Hi Y4		5								
Low Y6	L3		6		2			2			0

Short Z1						$4 \times 3 \times 2$	3 - 4			Short Z1b	
Short Z2				1		$4 \times 3 \times 2$	3 - 4			Short Z2b	
Short Z3		4	3	2		$4 \times 3 \times 2$	3 - 4			Short Z3b	
Short Z4		5				$4 \times 3 \times 2$	3 - 4			Short Z4b	
Short Z5		6				$4 \times 3 \times 2$	3 - 4			Short Z5b	
Short Z6						$4 \times 3 \times 2$	3 - 4			Short Z6b	
Short Z1b						$4 \times 3 \times 2$	3 - 4			Short Z1	
Short Z2b						$4 \times 3 \times 2$	3 - 4			Short Z2	
Short Z3b						$4 \times 3 \times 2$	3 - 4			Short Z3	
Short Z4b						$4 \times 3 \times 2$	3 - 4			Short Z4	
Short Z5b						$4 \times 3 \times 2$	3 - 4			Short Z5	
Short Z6b					12	$4 \times 3 \times 2$	3 - 4	12		Short Z6	6
Long Z1						$4 \times 3 \times 2$	3 - 4			Long Z1b	
Long Z2		1	2			$4 \times 3 \times 2$	3 - 4			Long Z2b	
Long Z3			3			$4 \times 3 \times 2$	3 - 4			Long Z3b	
Long Z1b			4			$4 \times 3 \times 2$	3 - 4			Long Z1	
Long Z2b			5	6		$4 \times 3 \times 2$	3 - 4			Long Z2	
Long Z3b					6	$4 \times 3 \times 2$	3 - 4	6		Long Z3	3
Hi 4 1						$4 \times 3 \times 2$	3 - 4			Hi 4 1b	
Hi 4 2		1				$4 \times 3 \times 2$	3 - 4			Hi 4 2b	
Hi 4 3		2	3	4		$4 \times 3 \times 2$	3 - 4			Hi 4 3b	
Hi 4 4			5			$4 \times 3 \times 2$	3 - 4			Hi 4 4b	
Hi 4 5			6			$4 \times 3 \times 2$	3 - 4			Hi 4 5b	
Hi 4 6						$4 \times 3 \times 2$	3 - 4			Hi 4 6b	
Hi 4 1b						$4 \times 3 \times 2$	3 - 4			Hi 4 1	
Hi 4 2b						$4 \times 3 \times 2$	3 - 4			Hi 4 2	
Hi 4 3b						$4 \times 3 \times 2$	3 - 4			Hi 4 3	
Hi 4 4b						$4 \times 3 \times 2$	3 - 4			Hi 4 4	
Hi 4 5b						$4 \times 3 \times 2$	3 - 4			Hi 4 5	
Hi 4 6b					12	$4 \times 3 \times 2$	3 - 4	12		Hi 4 6	6
Low 4 1						$4 \times 3 \times 2$	3 - 4			Low 4 1b	
Low 4 2		1				$4 \times 3 \times 2$	2 - 5			Low 4 2b	
Low 4 3		2				$4 \times 3 \times 2$	3 - 4			Low 4 3b	
Low 4 4		3	4	5		$4 \times 3 \times 2$	2 - 5			Low 4 4b	
Low 4 5			6			$4 \times 3 \times 2$	3 - 4			Low 4 5b	
Low 4 6						$4 \times 3 \times 2$	3 - 4			Low 4 6b	
Low 4 1b						$4 \times 3 \times 2$	3 - 4			Low 4 1	
Low 4 2b						$4 \times 3 \times 2$	2 - 5			Low 4 2	
Low 4 3b						$4 \times 3 \times 2$	3 - 4			Low 4 3	
Low 4 4b						$4 \times 3 \times 2$	2 - 5			Low 4 4	
Low 4 5b						$4 \times 3 \times 2$	3 - 4			Low 4 5	
Low 4 6b					12	$4 \times 3 \times 2$	3 - 4	8	4	Low 4 6	6
total sums					311			279	32		146