

Emily's Atmosphere Socks

These socks were designed for my niece Emily who requested a short sock and has very thin legs. The ribbed lace will work for any size leg. For Emily I used a 2.25 needle to get a smaller sock. Changing needle size is the easiest way to resize this pattern. I have not designed a 72 stitch heel yet, but will for other members of the family.

Size 1 (2.25) Gauge 8.5 sts & 12 rows per inch. (Size 1 needle 2.5mm gave 8 sts & 11 rows inch).

Knit Picks Stroll Multi – Atmosphere colorway



Toe

Judy's magic cast on 12 sts per side.

Row 1: *K1 m1r, K to last 2 sts, m1l, k1* each side.

Rows 2-4: Repeat row 1.

Rows 5: Repeat row 1

Row 6: Knit around.

Repeat rows 5 & 6 until 32 sts per side. (16 total rows)
(check gauge here and compare to foot measurements.)

End of Row	# of sts Side/total
1	14/28
2	16/32
3	18/36
4	20/40
5	22/44
7	24/48
9	26/52
11	28/56
13	30/60
15	32/64

Foot

Work stockinette ____ rows. Desired length ____ - (36 / ____ Rows per inch) = how long foot should be when starting gusset. Without the math, start approx. 3 ¼ inches short of total length. (For Emily 60 rows)

Gusset

Rnd 1: sole – k1 m1r, knit to last st, m1l, k1; instep – k across

Rnd 2: Knit around.

Repeat these two rnds 11 more times until 56 sts on front needle. (24 rows all together).

Turn Heel

Now work only sole sts.

Row 1 – Right side: K 18 sts, place marker, K17, kfb, k1, wrap & turn. I used shadow wraps for the wrap & turn, as described by Alice at <http://www.socktopus.co.uk/2011/02/short-rows-shadow-wraps/>, and they were much easier than the traditional method.

Row 2 (Wrong side)	P17, pfb, p1, wrap & turn
Row 3 (Right side)	k16, kfb, k1, wrap & turn
Row 4 (Wrong side)	P15, pfb, p1, wrap & turn
Row 5 (Right side)	k14, kfb, k1, wrap & turn
Row 6 (Wrong side)	P13, pfb, p1, wrap & turn
Row 7 (Right side)	k12, kfb, k1, wrap & turn
Row 8 (Wrong side)	P11, pfb, p1, wrap & turn
Row 9 (Right side)	K10, kfb, k1, wrap & turn
Row 10 (Wrong side)	P9, pfb, p1, wrap & turn
Row 11 (Right side)	K8, kfb, k1, wrap & turn
Row 12 (Wrong side)	P7, pfb, p1, wrap & turn

Heel Flap

Setup: Knit all the way around sock, ending at the beginning of a round marker, knitting each wrapped stitch together with its wrap (or shadow with its stitch.)

Row 1 – Right side: K49 (don't forget those wrapped/shadow stitches), ssk, turn.

Row 2 – Wrong side: S1, p30, p2tog, Turn.

Row 3 – Right side: Slip 1, *k1, S1* fifteen times, SSK, turn.

Row 4 – Wrong side: Slip 1, p30, p2tog, turn. (You are purling to 1 st before the gap and then purling 2 together over the gap.)

Repeat rows 3 & 4 until sock has 1 st before gap on each side.

Work Row 3 again, but **DO NOT TURN**. Work Instep around to beginning of round. You will have 33 sts on the heel side due to the stitch before the gap at the beginning of the row.

Next Round: K2tog to eliminate stitch and gap. Then knit around sock to beginning of round.

Leg

Work 2 rnds even then start Chart. **Work chart** around leg 8 times. Work all 4 rows ____ times. (5)

Row 1: *k1, p2, k2, p2, k1* repeat between * across both sides.

Row 2: *K1, p2, yo, ssk, p2, k1* repeat between * across both sides.

Row 3: Repeat row 1.

Row 4: *K1, p2, k2tog, yo, p2, k1* repeat between * across both sides.

	⊗	⊗	o	/	⊗	⊗		4
	⊗	⊗			⊗	⊗		3
	⊗	⊗	\	o	⊗	⊗		2
	⊗	⊗			⊗	⊗		1

Cuff

K1, *p2, k2* repeat between * to three stitches before end of side, ending p2, k1. Repeat for other side.

Repeat for _____ rows. (For Emily 8 rows.)

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