Output Size	DenseNet-121	DenseNet-169	DenseNet-201	DenseNet-264
112 × 112	7 × 7 conv, stride 2			
56 × 56	3 × 3 max pool, stride 2			
56 × 56	$\left[\begin{array}{c} 1 \times 1 \text{ conv} \\ 3 \times 3 \text{ conv} \end{array}\right] \times 6$	$\left[\begin{array}{c} 1 \times 1 \text{ conv} \\ 3 \times 3 \text{ conv} \end{array}\right] \times 6$	$\begin{bmatrix} 1 \times 1 \text{ conv} \\ 3 \times 3 \text{ conv} \end{bmatrix} \times 6$	$\left[\begin{array}{c} 1 \times 1 \text{ conv} \\ 3 \times 3 \text{ conv} \end{array}\right] \times 6$
56 × 56	$1 \times 1 \text{ conv}$			
$28 \times 28$	2 × 2 average pool, stride 2			
28 × 28	$\begin{bmatrix} 1 \times 1 \text{ conv} \\ 3 \times 3 \text{ conv} \end{bmatrix} \times 12$	$\begin{bmatrix} 1 \times 1 \text{ conv} \\ 3 \times 3 \text{ conv} \end{bmatrix} \times 12$	$\begin{bmatrix} 1 \times 1 \text{ conv} \\ 3 \times 3 \text{ conv} \end{bmatrix} \times 12$	$\begin{bmatrix} 1 \times 1 \text{ conv} \\ 3 \times 3 \text{ conv} \end{bmatrix} \times 12$
28 × 28	1 × 1 conv			
14 × 14	2 × 2 average pool, stride 2			
14 × 14	$\left[\begin{array}{c} 1 \times 1 \text{ conv} \\ 3 \times 3 \text{ conv} \end{array}\right] \times 24$	$\begin{bmatrix} 1 \times 1 \text{ conv} \\ 3 \times 3 \text{ conv} \end{bmatrix} \times 32$	$\begin{bmatrix} 1 \times 1 \text{ conv} \\ 3 \times 3 \text{ conv} \end{bmatrix} \times 48$	$\begin{bmatrix} 1 \times 1 \text{ conv} \\ 3 \times 3 \text{ conv} \end{bmatrix} \times 64$
14 × 14	$1 \times 1 \text{ conv}$			
7 × 7	2 × 2 average pool, stride 2			
7 × 7	$\left[\begin{array}{c} 1 \times 1 \text{ conv} \\ 3 \times 3 \text{ conv} \end{array}\right] \times 16$	$\begin{bmatrix} 1 \times 1 \text{ conv} \\ 3 \times 3 \text{ conv} \end{bmatrix} \times 32$	$\begin{bmatrix} 1 \times 1 \text{ conv} \\ 3 \times 3 \text{ conv} \end{bmatrix} \times 32$	$\begin{bmatrix} 1 \times 1 \text{ conv} \\ 3 \times 3 \text{ conv} \end{bmatrix} \times 48$
1 × 1	7 × 7 global average pool			
	1000D fully-connected, softmax			
	112 × 112 56 × 56 56 × 56 28 × 28 28 × 28 28 × 28 14 × 14 14 × 14 7 × 7 7 × 7		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$

**Table 1:** DenseNet architectures for ImageNet. The growth rate for all the networks is k=32. Note that each "conv" layer shown in the table corresponds the sequence BN-ReLU-Conv.