

Supplementary Sheet 2 for the Declaration of Performance (DoP) in acc. with Construction Products (Amendment etc.) (EU Exit) Regulations 2020 (No. 1359)

Tolerances on Dimensions and Shape in acc. with EN 10279:2000 for steel channels

Tolerances on Dimensions and Shape for channels with tapered flanges:


Essential characteristic	Performance				Harmonised technical specification
Tolerances on dimensions and shape	Depth of section h		Flange width b		EN 10025-1:2004
	Nominal Value, mm	deviation limit, mm	Nominal Value, mm	deviation limit, mm	
	$h \leq 65$	$\pm 1,5$	$b \leq 50$	$\pm 1,5$	
	$65 < h \leq 200$	$\pm 2,0$	$50 < b \leq 100$	$\pm 2,0$	
	$200 < h \leq 400$	$\pm 3,0$	$100 < b \leq 125$	$\pm 2,5$	
	$400 < h$	$\pm 4,0$	$125 \leq b$	$\pm 3,0$	
	Web thickness, s		Flange thickness, t		
	nominal value, mm	deviation limit, mm	nominal value, mm	deviation limit, mm *	
	$s < 10$	$\pm 0,5$	$t \leq 10$	$-0,5$	
	$10 \leq s < 15$	$\pm 0,7$	$10 < t \leq 15$	$-1,0$	
	$15 \leq s$	$\pm 1,0$	$15 < t$	$-1,5$	
	edge radius r3				
	all nominal values		$\leq 0,3 \times t$		
	Flange nonparallelism, k+k'		Web off centre, f		
	At flange width b, mm	deviation limit, mm	At flange width b, mm	deviation limit, mm	
	$b \leq 100$	2,0	$h \leq 100$	$\pm 0,5$	
			$100 < h \leq 200$	$\pm 1,0$	
			$200 < h \leq 400$	$\pm 1,5$	
	$100 \leq b$	2,5 % of b	$400 < h$	$\pm 1,5$	
	Straightness				
	At depth of section h, mm	Tolerance on straightness q_{xx}	At depth of section h, mm	Tolerance on straightness, q_{yy}	
	$h \leq 150$	0,3% of L	$h \leq 150$	0,5% of L	
	$150 < h \leq 300$	0,2% of L	$150 < h \leq 300$	0,3% of L	
	$300 < h$	0,15% of L	$300 < h$	0,2% of L	
Length L					
± 50 mm		Standard deviation limit			
$+100$ -0 mm		by agreement			
Mass kg/m					
$h \leq 125$	$\pm 6\%$	* positive deviations of the flange are limited by the deviation limit of mass			
$125 < h$	$\pm 4\%$				

Tolerances on Dimensions and Shape for channels with parallel flanges:

Essential characteristic	Performance				Harmonised technical specification
Tolerances on dimensions and shape	Depth of section h		Flange width b		EN 10025-1:2004
	nominal value, mm	deviation limit, mm	nominal value, mm	deviation limit, mm	
	$h \leq 65$	$\pm 1,5$	$b \leq 50$	$\pm 1,5$	
	$65 < h \leq 200$	$\pm 2,0$	$50 < b \leq 100$	$\pm 2,0$	
	$200 < h \leq 400$	$\pm 3,0$	$100 < b \leq 125$	$\pm 2,5$	
	$400 < h$	$\pm 4,0$	$125 \leq b$	$\pm 3,0$	
	Web thickness s		Flange thickness t		
	nominal value, mm	deviation limit, mm	nominal value, mm	deviation limit, mm *	
	$s < 10$	$\pm 0,5$	$t \leq 10$	-0,5	
	$10 \leq s < 15$	$\pm 0,7$	$10 < t \leq 15$	-1,0	
	$15 \leq s$	$\pm 1,0$	$15 < t$	-1,5	
	Edge radius r_3				
	all nominal values		$\leq 0,3 \times t$		
	Flange non parallelism, $k+k'$		Web off centre, f		
	at flange width b, mm	deviation limit, mm	at flange width b, mm	deviation limit, mm	
	$b \leq 100$	2,0	$h \leq 100$	$\pm 0,5$	
			$100 < h \leq 200$	$\pm 1,0$	
			$200 < h \leq 400$	$\pm 1,5$	
	$100 \leq b$	2,5 % of b	$400 < h$	$\pm 1,5$	
	Straightness				
	at depth of section h, mm	Tolerance on straightness q_{xx}	at depth of section h, mm	Tolerance on straightness q_{yy}	
	$h \leq 150$	0,3% of L	$h \leq 150$	0,5% of L	
	$150 < h \leq 300$	0,2% of L	$150 < h \leq 300$	0,3% of L	
	$300 < h$	0,15% of L	$300 < h$	0,2% of L	
	Length L				
	± 50 mm		Standard deviation limit		
	$+100$ -0 mm		by agreement		
Mass kg/m					
$h \leq 125$	$\pm 6\%$	* positive deviations of the flange thickness are limited by the deviation limit of mass			
$125 < h$	$\pm 4\%$				

This Supplementary Sheet shall be read only in conjunction with the referring Declaration of Performance.

Peine, 14.02.2022


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