GH Wind bracing strip
Characteristic resistance comparison
EN 14545

	t = 1.5 mm			t = 2.0 mm		
Steel grade		S355GD			S250GD	
Zinc coat		275	g/m²		275	g/m²
min. yield strength	R_{eH}	355	N/mm²	R_{eH}	250	N/mm²
mind. tensile strength	$R_{m\ min.}$	510	N/mm²	$R_{m\ min.}$	330	N/mm²
Elongation at break	$A_{80\ min.}$	15	%	$A_{80\ min.}$	19	%

	$R_{t,k}$ [kN]	**$R_{t,d}$ [kN]**
b= 40 mm	**20,7**	**16,5**
b= 60 mm	**31,0**	**24,8**
b= 80 mm	**41,3**	**33,0**

	$R_{t,k}$ [kN]	$R_{t,d}$ [kN]
b= 40 mm	17,8	14,3
b= 60 mm	26,7	21,4
b= 80 mm	35,6	28,5

as per ETA-13/0523

Resistance[1] per nail	t = 1.5 mm	**$R_{1,k}$ [kN]**
	4.0x40	1,890
	4.0x50	2,214
	4.0x60	2,364
	4.0x75	2,514

t = 2.0 mm	**$R_{1,k}$ [kN]**
	1,877
	2,214
	2,364
	2,514

The max. resistance (load-carrying capacity) of the wind bracing strip depends on the number of fixing points per rafter, subject to the required minimum distances to the edge

[1] The number of fixing points can be reduced by using the GH screw (ETA-13/0523).