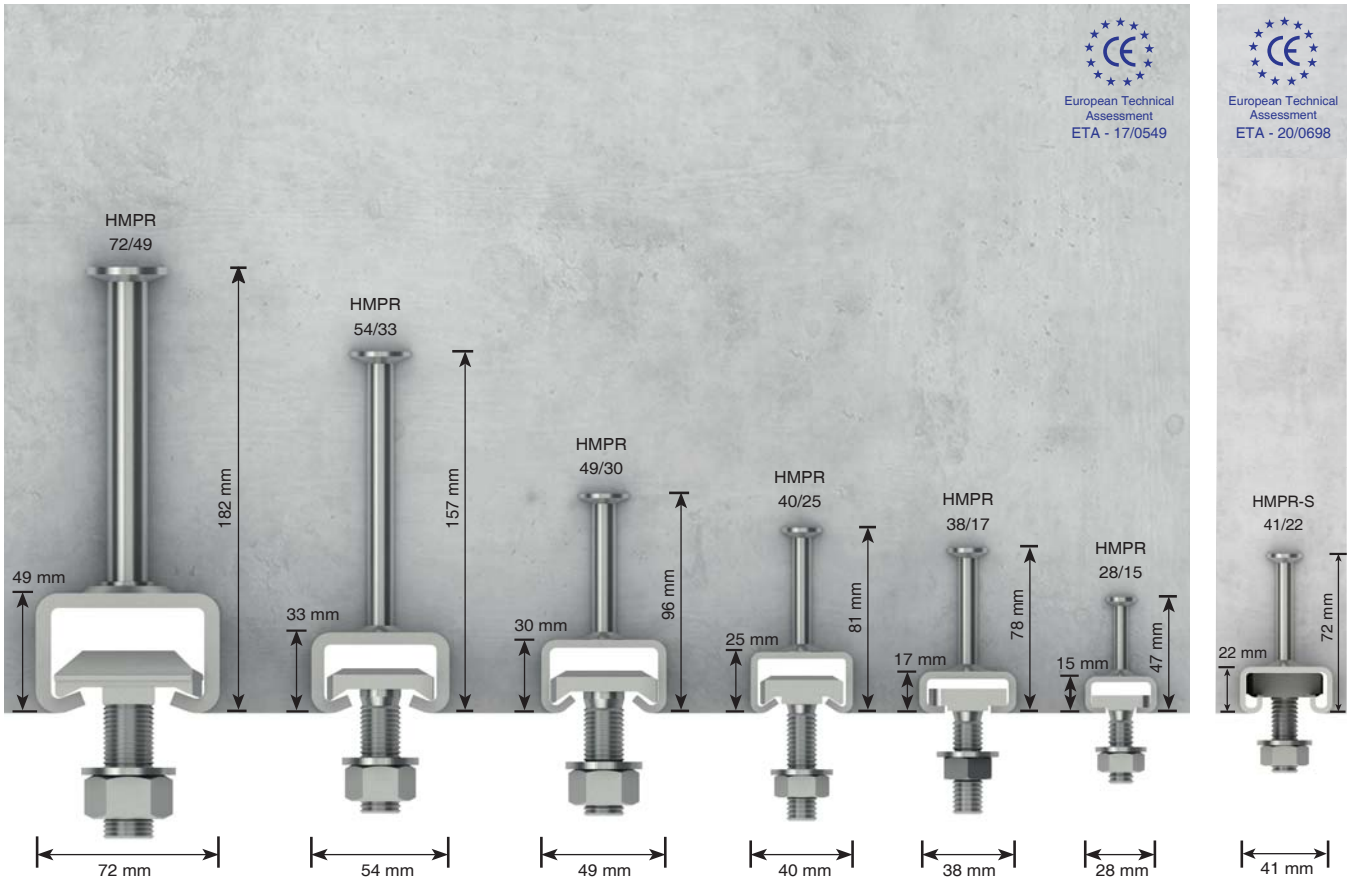
HAZ Anchor Channels - Product Range

Cold rolled anchor channels - applicape for static loads



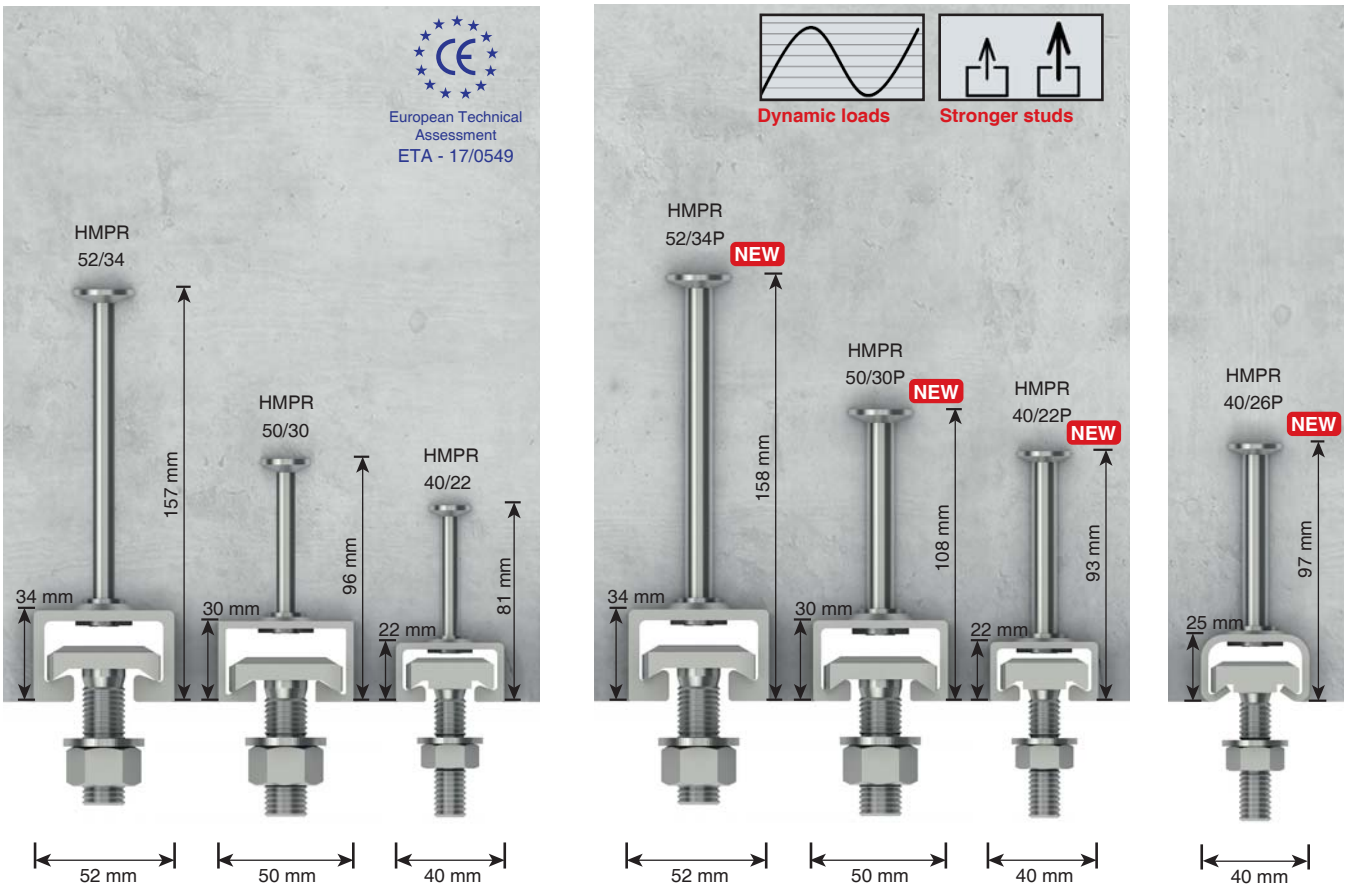
HMPR Cold rolled channels are suitable to withstand static loads. HMPR-S toothed channels are suitable to resist longitudinal loads when used with toothed t head bolts. The range available can cover resistance loads ($N_{Rd} = V_{Rd}$) between 7,2 kN and 50,5 kN. Channels are available in stainless steel 1.4301 & 1.4401 and hot dip galvanised mild steel 1.0038 & 1.0976 (S235 JR &

Anchor Channel Product Code	HMPR-CE 72/49	HMPR-CE 54/33	HMPR-CE 49/30	HMPR-CE 40/25	HMPR-CE 38/17	HMPR-CE 28/15	HMPR-S-CE 41/22
Channel Section	72/49	54/33	49/30	40/25	38/17	28/15	41/22
Load Capacity (kN) $N_{Rd} = V_{Rd}$ **Steel** / *Stainless steel*	**45** / *50.5*	**41.67** / *36.6*	**17.2** / *25*	**12.2** / *15*	**10.5** / *12.2*	**7.2** / *8.3*	**7.27** / 11.77
Channel Flexure (Nm) **Steel** / *Stainless steel* $M_{Rd,s,flex}$	**9868** / *6408*	**2832** / *2696*	**1646** / *1600*	**1179** / *911.3*	**517.4** / *566.1*	**303.5** / *302.6*	**420** / *299.13*

T Head Bolt Product Code	HAZ-HS HTB-72			HAZ-HS HTB-50			HAZ-HS HTB-50			HAZ-HS HTB-40			HAZ-HS HTB-38			HAZ-HS HTB-28			HAZ-HS HTB-S-41	
Metric Size	M20	M24	M30	M12	M16	M20	M12	M16	M20	M10	M12	M16	M10	M12	M16	M8	M10	M12	M12	M16
T.Bolt min spacing (mm) S_{slb}	100	120	150	60	80	100	60	80	100	50	60	80	50	60	80	40	50	60	60	80

HAZ Anchor Channels - Product Range

Anchor channels - applicaple for static & fatigue loads



HMPR Hot rolled channels are suitable to with stand dynamic loads as well as static loads. HMPR-P Hot rolled "powered" channels are a new version product with stronger and longer pressed studs that are tested and certified for use under dynamic loading. These channels are available in hot dip galvanized mild steel finish 1.0038 (S235JR). A new and patented cold rolled channel type HMPR 40/26P that certified for dynamic loads is also available to offer an economic option. The HMPR 40/26P channel is available in stainless steel as well as Hot dip galvanized mild steel finish 1.0038 (S235JR).

Anchor Channel Product Code	HMPR-CE 52/34	HMPR-CE 50/30	HMPR-CE 40/22	HMPR-CE 52/34P	HMPR-CE 50/30P	HMPR-CE 40/22P	HMPR-CE 40/26P
Channel Section (mm)	52/34	50/30	40/22	52/34P	50/30P	40/22P	40/26P
Load Capacity (kN) $N_{Rd} = V_{Rd}$ **Steel /** *Stainless steel*	**29.77**	**17.67**	**12.61**	**28.66**	**22.33**	**13.22**	**12.66 /** *14.77*
Channel Flexure (Nm) **Steel /** *Stainless steel* $M_{Rd,s,flex}$	**2440**	**2704**	**1261**	**2440**	**2704**	**1261**	**1260 /** *911*

T Head Bolt Product Code	HAZ-HS HTB-50			HAZ-HS HTB-50			HAZ-HS HTB-40			HAZ-HS HTB-50			HAZ-HS HTB-50			HAZ-HS HTB-40			HAZ-HS HTB-40		
Metric size	M12	M16	M20	M12	M16	M20	M10	M12	M16	M12	M16	M20	M12	M16	M20	M10	M12	M16	M10	M12	M16
T.Bolt min spacing (mm) S_{slb}	60	80	100	60	80	100	50	60	80	60	80	100	60	80	100	50	60	80	50	60	80

Standard Lengths

Standard Channel Lengths

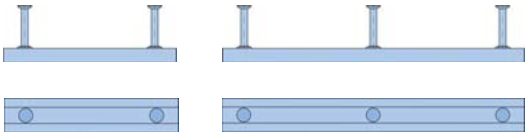
The list of the standard product range is showed on the table in accordance with European Technical Approval requirements. Other lengths and anchor numbers can be supplied depending on request.

For further information please contact us.

Product Length Range of HAZ HMPR-CE Anchor Channels - Length / Number of Anchors													
Cold Rolled Anchor Channels for Static Loads							Anchor Channels for Fatigue & Static Loads						
HMPR-CE 72/49	HMPR-CE 54/33	HMPR-CE 49/30	HMPR-CE 40/25	HMPR-CE 41/22	HMPR-CE 38/17	HMPR-CE 28/15	HMPR-CE 52/34	HMPR-CE 50/30	HMPR-CE 40/22	HMPR-CE 52/34P	HMPR-CE 50/30P	HMPR-CE 40/22P	HMPR-CE 40/26P
170/2	170/2	150/2	150/2	150/2	100/2	100/2	170/2	150/2	150/2	170/2	150/2	150/2	150/2
200/2	200/2	200/2	200/2	200/2	150/2	150/2	200/2	200/2	200/2	200/2	200/2	200/2	200/2
250/2	250/2	250/2	250/2	250/2	200/2	200/2	250/2	250/2	250/2	250/2	250/2	250/2	250/2
300/2	300/2	300/2	300/2	300/2	250/2	250/2	300/2	300/2	300/2	300/2	300/2	300/2	300/2
350/2	350/3	350/3	350/3	350/3	300/3	300/3	350/3	350/3	350/3	350/3	350/3	350/3	350/3
450/3	400/3	400/3	400/3	400/3	350/3	350/3	400/3	400/3	400/3	400/3	400/3	400/3	400/3
650/3	550/3	550/3	550/3	550/3	450/3	450/3	550/3	550/3	550/3	550/3	550/3	550/3	550/3
970/4	820/4	800/4	800/4	800/4	550/4	550/4	820/4	800/4	800/4	820/4	800/4	800/4	800/4
	1070/5	1050/5	1050/5	1050/5	850/5	850/5	1070/5	1050/5	1050/5	1070/5	1050/5	1050/5	1050/5
	3070/13	3050/13	3050/13	3050/13	1050/6	1050/6	3070/13	3050/13	3050/13	3070/13	3050/13	3050/13	3050/13
	6070/25	6050/25	6050/25	6050/25	3050/16	3050/16	6070/25	6050/25	6050/25	6070/25	6050/25	6050/25	6050/25
					6050/31	6050/31							
130 ≤ Ss ≤ 400	100 ≤ Ss ≤ 250				50 ≤ Ss ≤ 200		100 ≤ Ss ≤ 250						
Ss = Anchor spacing													

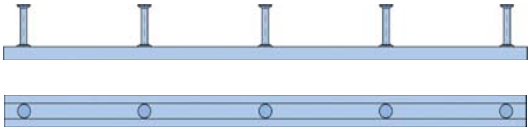
Standard short length channels

Short lenght channels are available from 100 mm to 950 mm with stud quantities and spacings according to the table above.



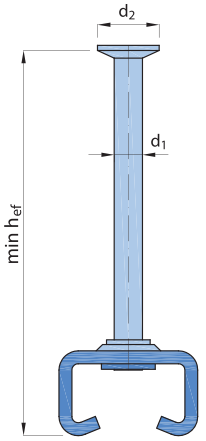
Standard long length channels

Long length channels are supplied in 1050, 3030 and 6070 mm lengths with varying stud spacings according to section type of the channel.



Types of round anchors studs

Type	Anchor	Shaft d1	Head d2	min hef
		(mm)	(mm)	(mm)
Round Studs	28/15	6	12	45
	38/17	8	16	76
	40/25	8	16	79
	49/30	10	20	94
	54/33	12	24	155
	72/49	16	32	179
	40/22	8	16	76
	50/30	10	20	94
	52/34	12	24	156
HMPR Round Studs	40/22P	10	20	91
	50/30P	12	24	106
	52/34P	14	28	156
	40/26P	10	20	94

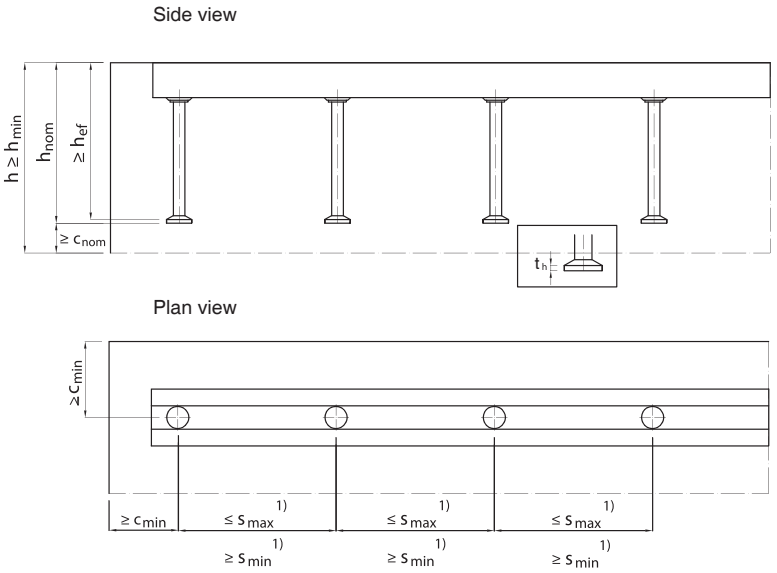


Anchor Spacings & Minimum Edge Distances

Anchor stud spacings

In order to meet the resistance loads, anchor stud spacings should be positioned according to the tables below.

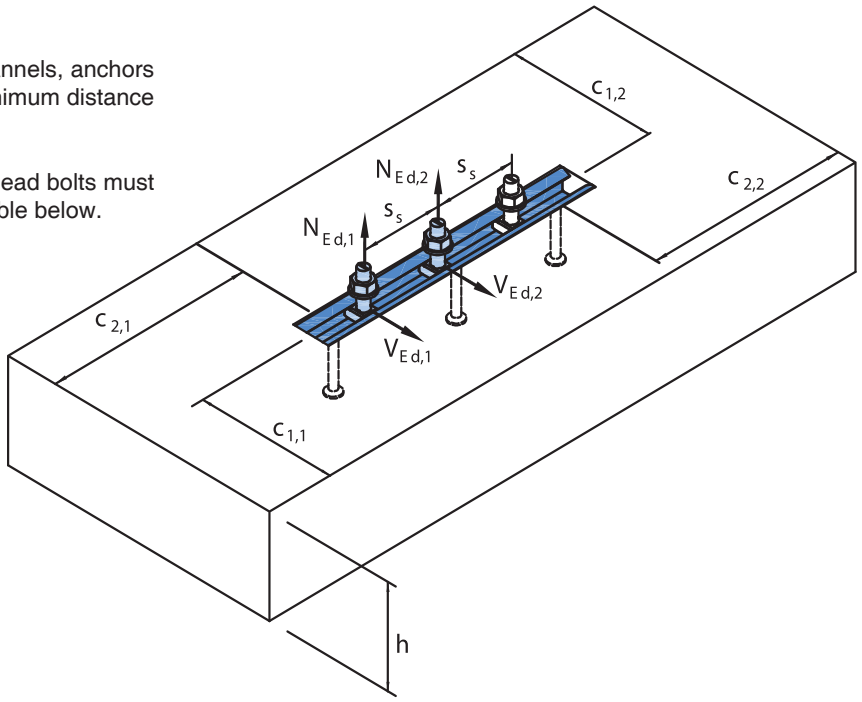
Anchor Channel	Anchor Spacing		End Spacing (x)	Min. Effect. Embed. hef	
	smin	smax	round anchor	round anchor	
	(mm)				
28/15	50	200	25	45	
38/17	50	200	25	76	
40/25	100	250	25	79	
41/22	100	250	25	79	
49/30	100	250	25	94	
50/30	100	250	35	35	
50/30	100	250	35	35	
54/33	100	250	35	35	
52/34	100	250	35	35	
72/49	130	400	35	35	
40/22P	100	250	25	25	
50/30P	100	250	35	35	
52/34P	100	250	35	35	
40/26P	100	250	25	25	



Minimum edge distances

Depending on the type of the channels, anchors studs must be positioned at a minimum distance from the component edges.

The minimum spacings of the T head bolts must be adhered to according to the table below.



Anchor Channel			28/15			38/17			40/22P & 40/26P 40/25 & 40/22			50/30P 49/30 & 50/30			50/30P 54/33 & 52/34			72/49		
Special screws	M	[mm]	8	10	12	10	12	16	10	12	16	12	16	20	12	16	20	20	24	30
Min. spacing of screws	Ss,min		40	50	60	50	60	80	50	60	80	60	80	100	60	80	100	100	120	150
Min. anchorage dept	min hef		45			76			79			94			155			179		
Min. edge distance	Cmin		40			50			50			75			100			150		
Min. member thickness	hmin		hef + t h + Cnom																	