

20 May 2025
Ref: 115/AM/DL/25

To whom it may concern,

Announcement of Next Generation Stud Anchor – HILTI HST4(-R) Expansion Anchor



For years, Hilti has been providing the HST3(-R) expansion anchor for demanding applications in both uncracked and cracked concrete. While HST3(-R) remains an outstanding expansion anchor solution, Hilti is advancing anchor technology with the launch of the next generation: **HST4(-R)**.

Following extensive research and development, the HST4(-R) offers enhanced performance while maintaining the proven torque-controlled, mechanical expansion design of its predecessor. It is approved for use in uncracked and cracked concrete under static and seismic loads.

The HST4(-R) now supports a broader range of embedment depths and delivers improved performance, especially where tensile failure modes are critical. HST4(-R) is available in metric sizes **M8, M10, M12, M16, and M20**, it sets a new benchmark in fastening solutions.

Hilti has thoroughly tested HST4(-R) in accordance with the following European Assessment Document (EAD):

- EAD 330232-01-0601, Mechanical fasteners for use in concrete.
- EAD 330232-01-0601-v02, Variant: Improved resistance to concrete cone failure for mechanical fasteners for use in concrete.
- EAD 330232-01-0601-v03, Mechanical fasteners with variable embedment depth for use in concrete.
- EAD 330232-01-0601-v05, Mechanical fasteners for use in concrete C12/15 to C90/105 and in steel fibre reinforced concrete.

Key Highlights:

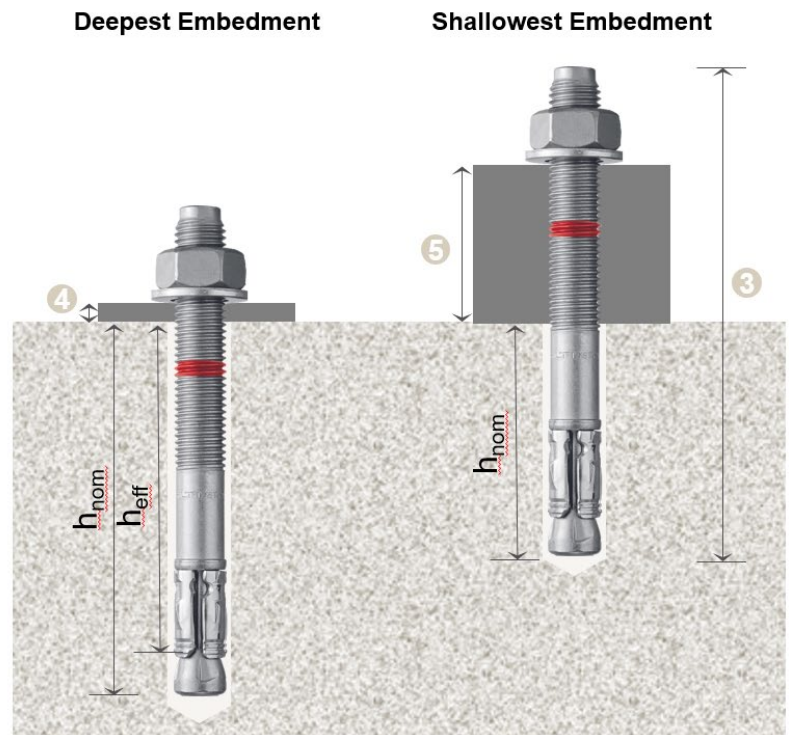
- HST4(-R) exhibits **higher or equivalent characteristic tensile performance compared to one size larger HST3(-R)** in some sizes
- Wider variable embedment range compared to HST3(-R) for design flexibility
- Shorter anchor model available for Value Engineering
- Adaptive Torque (AT) System as the ETA approved installation method

Based on the ETA 21/0878, for equal size and embedment depths, HST4(-R) is equal to or better than HST3 with limited exceptions. Given the evolving landscape of anchor qualification and design, we suggest using **PROFIS Engineering** when replacing existing products. PROFIS Engineering has been updated to include **Hilti HST4(-R)**, enabling accurate calculations and helping you explore its full range of applications.

Nomenclature

1
2
3
4
5
HST4 M16 x 145 5 - 45

- 1 Stud name (HST4/ HST4-R)
- 2 Anchor diameter
- 3 Anchor total length
- 4 Max thickness of the baseplate at Deepest h_{eff}
- 5 Max thickness of the baseplate at Shallowest h_{eff}



Please note that M10 – M20 HST4-R are currently with project approved by Building Department.

Attached please find the list of HST4(-R) anchor model available as the successor of HST3(-R) portfolio.

Should you have any further questions, please do not hesitate to contact our Account Managers or Customer Service Hotline at 8228 8118.

Yours sincerely,



Derek Lam
Senior Engineering Trade Manager
Hilti (Hong Kong) Ltd.

HST3				HST4			
							
Item No.	Description	Head Mark	Anchor Length	Item No.	Description	Head Mark	Anchor Length
				2328937	Stud anchor HST4 M8x50 5	A	50
				2328938	Stud anchor HST4 M8x65 5-20	C	65
2105888	Stud anchor HST3 M8x75 -/10	C	75	2328939	Stud anchor HST4 M8x75 5-30	C	75
2105889	Stud anchor HST3 M8x95 -/30	E	95	2329050	Stud anchor HST4 M8x95 5-50	E	95
2105890	Stud anchor HST3 M8x115 -/50	G	115	2329051	Stud anchor HST4 M8x115 5-70	G	115
				2329052	Stud anchor HST4 M10x60 5-10	B	60
2113974	Stud anchor HST3 M10x70 10/-	C	70	2329053	Stud anchor HST4 M10x70 5-20	C	70
2113975	Stud anchor HST3 M10x80 20/-	D	80	2329054	Stud anchor HST4 M10x80 5-30	D	80
2105712	Stud anchor HST3 M10x90 30/10	E	90	2329055	Stud anchor HST4 M10x90 5-40	E	90
2105713	Stud anchor HST3 M10x100 40/20	E	100	2329056	Stud anchor HST4 M10x100 5-50	E	100
2105714	Stud anchor HST3 M10x110 50/30	F	110	2329057	Stud anchor HST4 M10x110 5-60	F	110
2105715	Stud anchor HST3 M10x130 70/50	H	130	2329058	Stud anchor HST4 M10x130 5-80	H	130
2105716	Stud anchor HST3 M10x160 100/80	J	160	2329059	Stud anchor HST4 M10x160 5-110	J	160
				2329060	Stud anchor HST4 M10x180 5-130	L	180
2105717	Stud anchor HST3 M10x200 140/120	M	200		-Discontinued-		
				2329061	Stud anchor HST4 M12x75 5-10	C	75
2113978	Stud anchor HST3 M12x85 10/-	D	85	2329062	Stud anchor HST4 M12x85 5-20	D	85
2113979	Stud anchor HST3 M12x95 20/-	E	95		-Discontinued-		
2105718	Stud anchor HST3 M12x105 30/10	F	105	2329063	Stud anchor HST4 M12x105 5-40	F	105
2105719	Stud anchor HST3 M12x115 40/20	G	115	2329064	Stud anchor HST4 M12x115 5-50	G	115
2105850	Stud anchor HST3 M12x125 50/30	G	125	2329065	Stud anchor HST4 M12x125 5-60	G	125
				2329066	Stud anchor HST4 M12x135 5-70	H	135
2105851	Stud anchor HST3 M12x145 70/50	I	145	2329067	Stud anchor HST4 M12x145 5-80	I	145
2105852	Stud anchor HST3 M12x165 90/70	J	165	2329068	Stud anchor HST4 M12x165 5-100	J	165
2105853	Stud anchor HST3 M12x185 110/90	L	185	2329069	Stud anchor HST4 M12x180 5-115	L	180
				2329070	Stud anchor HST4 M12x200 5-135	M	200
2105854	Stud anchor HST3 M12x215 140/120	N	215		-Discontinued-		
2105855	Stud anchor HST3 M12x235 160/140	P	235		-Discontinued-		
2105856	Stud anchor HST3 M12x255 180/160	R	255	2329071	Stud anchor HST4 M12x260 35-195	R	260
2105857	Stud anchor HST3 M12x295 220/200	S	295		-Discontinued-		
2114053	Stud anchor HST3 M16x115 15/-	G	115	2329072	Stud anchor HST4 M16x115 5-15	G	115
				2329073	Stud anchor HST4 M16x125 5-25	G	125
2105858	Stud anchor HST3 M16x135 35/15	H	135	2329074	Stud anchor HST4 M16x135 5-35	H	135
2105859	Stud anchor HST3 M16x145 45/25	I	145	2329075	Stud anchor HST4 M16x145 5-45	I	145
2105860	Stud anchor HST3 M16x170 70/50	K	170	2329076	Stud anchor HST4 M16x170 5-70	K	170
				2329077	Stud anchor HST4 M16x190 5-90	L	190
2105861	Stud anchor HST3 M16x220 120/100	O	220	2329078	Stud anchor HST4 M16x220 5-120	O	220
2105862	Stud anchor HST3 M16x260 160/140	R	260	2329079	Stud anchor HST4 M16x260 5-160	R	260
2105863	Stud anchor HST3 M16x300 200/180	S	300		-Discontinued-		
2105891	Stud anchor HST3 M20x170 -/30	K	170	2329080	Stud anchor HST4 M20x170 5-30	K	170
2105892	Stud anchor HST3 M20x200 -/60	M	200	2329081	Stud anchor HST4 M20x200 5-60	M	200
2105893	Stud anchor HST3 M20x260 -/120	R	260	2329082	Stud anchor HST4 M20x260 60-120	R	260
2105894	Stud anchor HST3 M24x200 -/30	M	200		-Discontinued-		
2105895	Stud anchor HST3 M24x230 -/60	P	230		-Discontinued-		

HST3-R



HST4-R



Item No.	Description	Head Mark	Anchor Length	Item No.	Description	Head Mark	Anchor Length
				2329093	Stud anchor HST4-R M8x50 5	A	50
				2329094	Stud anchor HST4-R M8x65 5-25	C	65
2105896	Stud anchor HST3-R M8x75 -/10	C	75	2329095	Stud anchor HST4-R M8x75 5-35	C	75
2105897	Stud anchor HST3-R M8x95 -/30	E	95	2329096	Stud anchor HST4-R M8x95 5-45	E	95
2105898	Stud anchor HST3-R M8x115 -/50	G	115	2329097	Stud anchor HST4-R M8x115 5-65	G	115
				2329098	Stud anchor HST4-R M10x60 5-10	B	60
2113976	Stud anchor HST3-R M10x70 10/-	C	70	2329099	Stud anchor HST4-R M10x70 5-20	C	70
2113977	Stud anchor HST3-R M10x80 20/-	D	80	2329100	Stud anchor HST4-R M10x80 5-30	D	80
2105864	Stud anchor HST3-R M10x90 30/10	E	90	2329101	Stud anchor HST4-R M10x90 5-40	E	90
2105865	Stud anchor HST3-R M10x100 40/20	E	100	2329102	Stud anchor HST4-R M10x100 5-50	E	100
2105866	Stud anchor HST3-R M10x110 50/30	F	110	2329103	Stud anchor HST4-R M10x110 5-60	F	110
2105867	Stud anchor HST3-R M10x130 70/50	H	130	2329104	Stud anchor HST4-R M10x130 5-80	H	130
2105868	Stud anchor HST3-R M10x160 100/80	J	160	2329105	Stud anchor HST4-R M10x160 5-110	J	160
				2329106	Stud anchor HST4-R M10x180 5-130	L	180
				2329107	Stud anchor HST4-R M12x75 5-10	C	75
2114051	Stud anchor HST3-R M12x85 10/-	D	85	2329108	Stud anchor HST4-R M12x85 5-20	D	85
2114052	Stud anchor HST3-R M12x95 20/-	E	95		-Discontinued-		
2105869	Stud anchor HST3-R M12x105 30/10	F	105	2329109	Stud anchor HST4-R M12x105 5-40	F	105
2105870	Stud anchor HST3-R M12x115 40/20	G	115	2329110	Stud anchor HST4-R M12x115 5-50	G	115
2105871	Stud anchor HST3-R M12x125 50/30	G	125	2329111	Stud anchor HST4-R M12x125 5-60	G	125
				2329112	Stud anchor HST4-R M12x135 5-70	H	135
2105872	Stud anchor HST3-R M12x145 70/50	I	145	2329113	Stud anchor HST4-R M12x145 5-80	I	145
2105873	Stud anchor HST3-R M12x165 90/70	J	165	2329114	Stud anchor HST4-R M12x165 5-100	J	165
2105874	Stud anchor HST3-R M12x185 110/90	L	185	2329115	Stud anchor HST4-R M12x180 5-115	L	180
				2329116	Stud anchor HST4-R M12x200 5-135	M	200
2105875	Stud anchor HST3-R M12x215 140/120	N	215		-Discontinued-		
2114057	Stud anchor HST3-R M16x115 15/-	G	115	2329117	Stud anchor HST4-R M16x115 5-15	G	115
				2329118	Stud anchor HST4-R M16x125 5-25	G	125
2105876	Stud anchor HST3-R M16x135 35/15	H	135	2329119	Stud anchor HST4-R M16x135 5-35	H	135
2105877	Stud anchor HST3-R M16x145 45/25	I	145	2329120	Stud anchor HST4-R M16x145 5-45	I	145
2105878	Stud anchor HST3-R M16x170 70/50	K	170	2329121	Stud anchor HST4-R M16x170 5-70	K	170
				2329122	Stud anchor HST4-R M16x190 5-90	L	190
2105879	Stud anchor HST3-R M16x220 120/100	O	220	2329123	Stud anchor HST4-R M16x220 5-120	O	220
2105880	Stud anchor HST3-R M16x260 160/140	R	260	2329124	Stud anchor HST4-R M16x260 5-160	R	260
2105881	Stud anchor HST3-R M16x300 200/180	S	300		-Discontinued-		
2105899	Stud anchor HST3-R M20x170 -/30	K	170	2329125	Stud anchor HST4-R M20x170 5-30	K	170
2105900	Stud anchor HST3-R M20x200 -/60	M	200	2329126	Stud anchor HST4-R M20x200 5-60	M	200
2105901	Stud anchor HST3-R M24x200 -/30	M	200		-Discontinued-		
2105902	Stud anchor HST3-R M24x230 -/60	P	230		-Discontinued-		