Typical fracture loads with the KEIL undercut facade anchor

material of slabs	fracture load [KN]	hS [mm]	thickness [mm]	picture of fracture (diameter in mm)
VSG laminated glass	1,20	7	10	fracture of slab
Float-Glas	2,35	7	10	fracture of slab
ESG tempered safety glass	4,80	5	10	slab crumbled
ESG tempered safety glass	1,98	4	10	slab crumbled
Technoplate	2,35	7	13	excavation cone
Mega Ceram Super	1,30	6	6,5	fracture of slab
Keramik	1,30	6	8	excavation cone
porcelain tiles	2,95	7	13	fracture of slab
porcelain tiles	2,40	7	9,5	fracture of slab
Pelicolor	2,28	8	12	excavation cone (50x50)
Fulguplan plus	2,55	9	12	excavation cone
Eterplan N	2,00	6	10,1	excavation cone
Trespa G2	7,21	9	13	excavation cone
Resoplan	5,55	7	10	excavation cone (60x60)
Resoplan	1,90	4	6	excavation cone (100x80)
Max	2,95	6	8	excavation cone
Glaskeramik	2,40	12	16	excavation cone (66x72)
Neoparies	3,45	9	18	excavation cone
Serizzo Gneis	7,83	15		excavation cone
Iragna Gneis	5,03	15	30	excavation cone (90x130)
Waldstein Granit	8,50	15		excavation cone
Verde Moritaca	10,80	15	20	excavation cone (74x74)
Striegauer Granit	5,75	15	35	excavation cone
Serizzo Antigorio	9,53	15	20	excavation cone (74x74)
Rösseiner Granit	9,80	15		excavation cone
Rosso Balmoral	8,90	15	20	excavation cone (74x74)
Rosa Porrinho	7,10	15	20	excavation cone (74x74)
Rosa Ghiandone	2,05	7	8,5	excavation cone (35x55)
Red Royal	10,55	15	20	excavation cone (75x75)
Paradiso	9,30	15	30	excavation cone (90x95)

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material of slabs	fracture load [KN]	hS [mm]	thickness [mm]	picture of fracture (diameter in mm)
Paradiso	4,05	9	30	excavation cone (55x65)
Onsernone	6,08	15	30	excavation cone
New Rubin	9,05	15	20	excavation cone (80x80)
Nero Assoluto	12,05	15	21	excavation cone (115x85)
Kristall Blau	8,05	15	19	excavation cone (70x100)
Giallo Bras	5,15	15	30	excavation cone (80x120)
Blanc Perla	8,44	15	30	excavation cone (70x110)
Bianco Sardo	6,80	15	20	excavation cone (80x80)
Baltic Brown	7,65	15	20	excavation cone (74x74)
Balmoral	2,70	7	20	excavation cone
Nero Impala	3,22	7	9(+1)	excavation cone
Tuff Mayen (gelb)	4,35	20	55	excavation cone (115x130)
Kirchheimer Muschelkalk	5,40	15	30	excavation cone (72x115)
Kalkstein Auer (porös)	6,95	15	30	excavation cone (83x80)
franz. Kalkstein	4,85	15	30	excavation cone (75x85)
Marmor	1,25	6	7,5	excavation cone (50x50)
Thüringer Travertin	5,90	15	32	excavation cone (80x80)
Azul Macaubas	8,50	15	20	excavation cone (85x90)
Spanischer Schiefer	3,50	10	25	excavation cone
Theumaer Fruchtschiefer	7,03	15	20	excavation cone (110x110)
Seeberger Sandstein	6,15	15	41	excavation cone (75x75)
Sandstein rot	9,41	22	42	excavation cone (20)
Sandstein (Main)	4,25	15	42	excavation cone (85x64)
Jerusalem Stone	5,95	15	20	excavation cone
Eichenbühler Sandstein	3,30	20	40	excavation cone (85x135)
Mastercarpet (ä.Bianco S	2,05	7	11	

Remarks: fracture load = received fracture load hS= setting depth of anchors
thickness = thickness of slabs

Approval from the General Construction Supervision with the KEIL facade anchors are given for fine stone (Mirage) ceramics (Gail-INAX), natural stone (hard stones), fiber reinforced resin-composed pannels (Trespa), glass ceramics(Structuran), fiber cement (Eternit) and furter approvals are to be applied for. Approvals for individual cases had been given to all common facade panels.