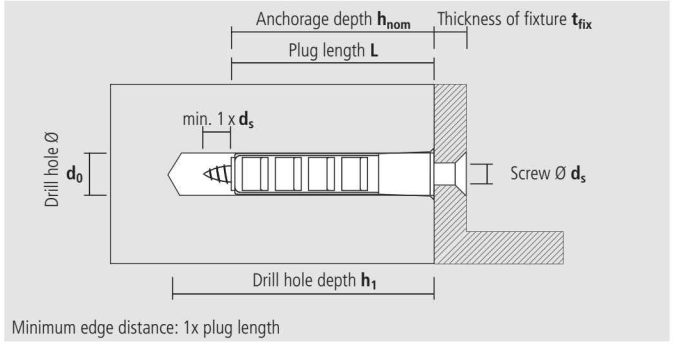
Aerated concrete plug GB

Advantages

- Specialised plug with excellent pull out loads in aerated concrete; to be used with wood screws
- Once the screw has been screwed in, the expansion force is transferred over three flanks optimally by developing a type of undercut
- All Apolo MEA aerated concrete plugs can also be hammered into a smaller drill hole in P4 aerated concrete; generally even without pre-drilling in P2

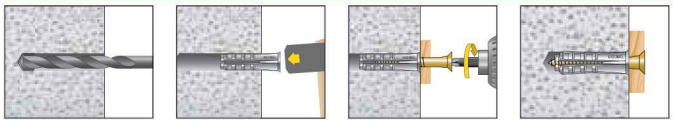
Suitable building materials

✔ Aerated concrete
✔ Gypsum blocks



Minimum edge distance: 1x plug length

Mounting



GB

Type	Art-No new	Art-No old	d_0* [mm]	h_1 ≥ [mm]	h_{nom} ≥ [mm]	L [mm]	d_s [mm]	Price €/ 100 pcs	Packing [pcs]	Packing [pcs]
GB 10	910GB	502010	10	65	55	55	4,5 - 6		25	675
GB 12	912GB	502012	12	70	60	60	7 - 8		20	540
GB 14	914GB	502014	14	90	75	75	10		10	270

* All GB sizes can be hammered into smaller drill holes when used in aerated concrete P4, in P2 usually without pre-drilling

Loads F_{rec} and F_{eff}

Type	Wood screws Ø [mm]	Aerated concrete P2 F_{rec} [kN]	Aerated concrete P2 F_{eff} [kN]	Aerated concrete P4 F_{rec} [kN]	Aerated concrete P4 F_{eff} [kN]
GB 10	6	0,25	1,5	0,55	3,3
GB 12	7	0,33	2,0	0,66	4,0
GB 14	10	0,50	3,0	1,10	6,7

F_{rec}: Recommended loads incl. safety factor of 6
F_{eff}: Effective pull out loads excl. safety factor

Spacing and edge distance for GB 12 according to former German approval by DIBt

Typ	Axcial spacing a ≥ PB2 / PP2 [mm]	Axcial spacing a ≥ PB4 / PP4 [mm]	Edge distance a_r ≥ PB2 / PP2 [mm]	Edge distance a_r ≥ PB4 / PP4 [mm]	Min. thickness of structural part d [mm]
GB 12	150	200	100	150	120