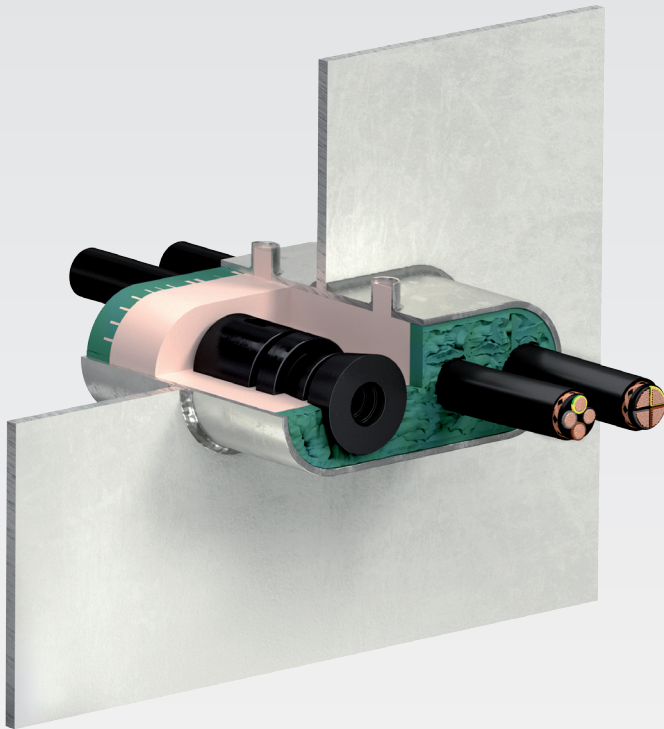


GEAQUELLO® E 950

Sealing system

Fire resistance class A-60 in accordance with IMO-Resolution A.754(18) for bulkhead and deck penetration. Sealing length 180 mm.



General information

Fields of application

The GEAQUELLO® E 950 sealing system is developed for the application in ship-building. In case of a fire the system is a safe sealing for cables and pipes, also above and under the water line.


System properties

- Removable
- Fire retardant, gas- and watertight (in accordance with SOLAS / IMO)
- Sealing length 180 mm
- Easy application – no adapters, moulded components or subdividers are required for installation, in spite of varying cable and pipe diameters
- All components react neutrally, are physiologically safe and are not subject to hazard identification requirements
- For retrofitting, the sealing compound can be removed on every time
- Easy cable and pipe retrofitting with GEAQUELLO® E 234 retrofit modules
- Indoor and outdoor application
- EMC / EMI penetration system in combination with FLAMMADUR® E 711 highly conductive sealing compound

System components

	GEAQUELLO® E 950 Sealing compound 3.0 kg pail – Art.-Nr. 4145486 15.0 kg pail – Art.-Nr. 4145524
	GEAQUELLO® R 312 / R 380 Retaining modules 360 modules à 120 x 25 x 6 mm – Art.-Nr. 4148143 25 modules à 800 x 25 x 6 mm – Art.-Nr. 4148142
	GEAQUELLO® E 824 Impregnation fluid Bottle à 1 kg – Art.-Nr. 4145152 Canister à 10 kg – Art.-Nr. 4145286
	GEAQUELLO® E 234 Retrofit modules Ø 40 x 235 mm – Art.-Nr. 4145500 Ø 66 x 235 mm – Art.-Nr. 4145502 Ø 90 x 235 mm – Art.-Nr. 4145504

System options

	FLAMMADUR® E 292 T Cartridge à 345 ml – Art.-Nr. 4146603 Bucket à 1kg – Art.-Nr. 4146219
	FLAMMADUR® A 365 Strip 5 Stck. à 1000 x 100 x 3 mm – Art.-Nr. 4246488
	FLAMMADUR® E 292 Top sealing compound Can à 1 kg – Art.-Nr. 4125671 Can à 5 kg – Art.-Nr. 4172744
	FLAMMADUR® A 386 Top sealing compound Can à 1 kg – Art.-Nr. 4146315
	GEAQUELLO® E 234 T Two-component putty Cartridge à 150 ml – Art.-Nr. 4145510 Cartridge à 345 ml – Art.-Nr. 4145512

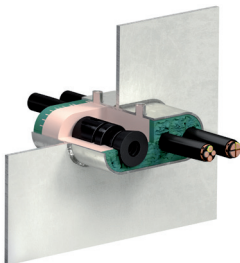
GEAQUELLO® E 950

Sealing system

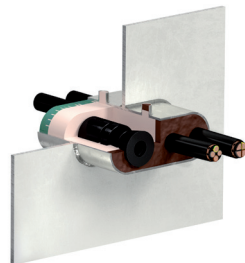
Application instructions

- To build the end wall, roughly fit the retaining modules GEAQUELLO® R 312 and / or R 380.
 - The retaining modules shall be fitted in such a way that the „comb-site“ will be sealed.
 - The expansion modules can be shortened in their length with simple tools.
 - All cables / pipes must be separated from each other with the help of retaining modules. This ensures the minimum distances and that the installations get full covered in the sealing.
- The retaining modules shall be impregnated with GEAQUELLO® E 824.
For 5 retaining modules R 380, 1 kg of impregnation liquid are needed.
 - Gloves and eye protection shall be used while working.
 - Cover the work place with paper or foil.
 - The modules absorb the liquid and swell to up to 10 times the size.
 - Within a few minutes, a stable and pour-proof front wall is formed, which is fire-retardant and self-extinguishing.
- Mixing of the sealing compound GEAQUELLO® E 950 with powder and tap water.
The required quantity depends of the penetration size and diameter of the installations.
 - Mix the GEAQUELLO® E 950 powder into clean water with mixing ratio of 2 : 1 (Powder : Water).
 - The sealing compound must be free of lumps and bubbles.
 - Let the mixed sealing compound rest for approx. 5 minutes.
 - Mix again shortly before filling the opening.
- Sealing the penetration
 - Filling the penetration e. g. with the help of a pump or funnel.
 - Pay attention of shrinkage. In case of shrinkage re-fill the penetration.
- If plastic pipes up to \varnothing 100 mm are used, wrap one layer of FLAMMADUR® A 365 strips around each of them and fix the strip with cable ties, adhesive tape or similar. Wrap two layers of FLAMMADUR® A 365 strips around plastic pipes $> \varnothing$ 100 mm.
 - For bulkhead penetration: Place the wrap in the middle of the pipe. For deck penetration: Place the wrap approx. 2 cm above the front wall.
 - The wrap can be cut to the required length.
- (6. For outdoor-penetration cover with approx. 20 mm FLAMMADUR® E 292, FLAMMADUR® E 292 T or FLAMMADUR® A 386.)

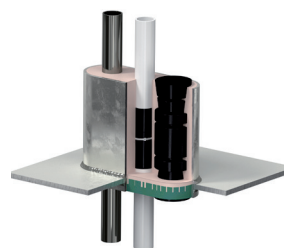
Bulkhead, indoor



Bulkhead, outdoor








Deck, indoor



Deck, outdoor



-  Green = GEAQUELLO® R 312 / R 380 Retaining modules
-  Pink = GEAQUELLO® E 950 Sealing compound
-  Black = GEAQUELLO® E 234 Retrofit modules
-  Black wrap around white pipe = FLAMMADUR® A 365 Strips for flammable pipes
-  Brown = FLAMMADUR® E 292, FLAMMADUR® E 292 T or FLAMMADUR® A 386 top sealing compounds