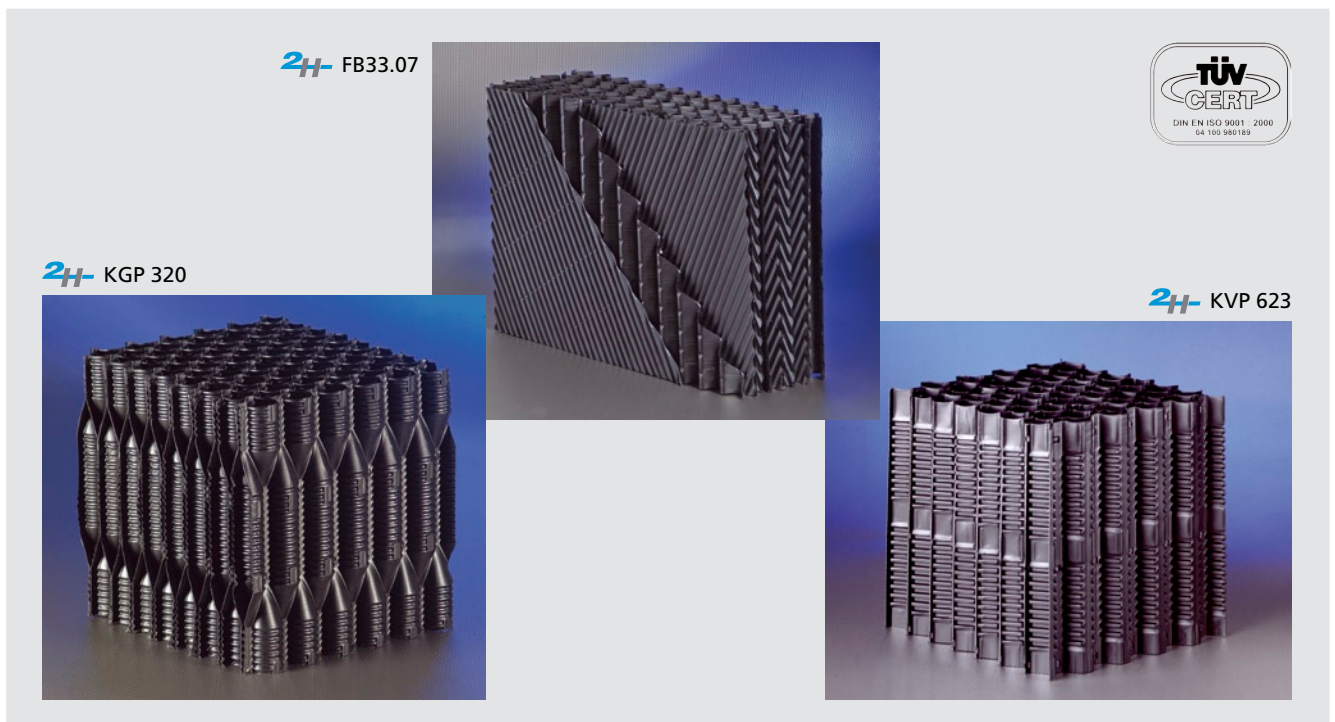


Product Profile

Vertical Flow Fills

PLASdek® / BIOdek®

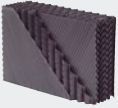

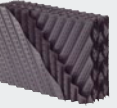

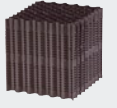




- ✓ **High operation reliability**
Limits the accumulation of solids and thick biofilms
- ✓ **Optimum solids discharge**
Due to vertical channels and open interfaces
- ✓ **Self supporting structure**
High bearing capacity with variable sheet thicknesses
- ✓ **High resistance to erosion**
Provided by double folded edges or reinforced PP edges
- ✓ **Low pressure drop**
Due to vertical direction of all channels
- ✓ **Long service life**
Due to chemical, bacterial and UV resistance of PP and PVC

Vertical Flow Fills

PLASdek® / BIOdek®

Technical Data

| 2H Type | FC33.07 FB33.07 | FC33.19 FB33.19 | FC33.27 FB33.27 | FKP 18.19 | KVP 318 KVP 618 | KVP 323 KVP 623 | KGP 320 KGP 620 |
|---|---|---|---|---|---|---|---|
| |  |  |  |  |  |  |  |
| Material | PVC | PVC | PVC | PP* | PP* | PP* | PP* |
| Specific surface area [m ² /m ³] | 140 | 110 | 90 | 150 | 150 | 125 | 150 |
| Corrugation height [mm] | 33 / 7 | 33 / 19 | 33 / 27 | 18 / 19 | 18 | 23 | 20 (offset) |
| Max. length [mm] | 2400 | 2400 | 2400 | 2400 | 2400 | 2400 | 2400 |
| Max. width [mm] | 900 | 900 | 900 | 600 | 600 | 600 | 600 |
| Height [mm] | 300 / 600 | 300 / 600 | 600 | 300 / 600 | 300 / 600 | 300 / 600 | 300 / 600 |
| Max. application temp. [°C] | 60 | 60 | 60 | 80 | 80 | 80 | 80 |
| Void ratio [%] | > 97 | > 97 | > 97 | > 97 | > 97 | > 97 | > 97 |

*also available in PVC on request with max. application temperature 60 °C

Typical Applications

| | | | | | | | |
|---|--|-------------------|-------------------------------|-------------------|--|--|-------------------|
| Cooling Tower Counter-flow | _____ | Polluted water | Strongly polluted water | Polluted water | Polluted water | Strongly polluted water | Polluted water |
| 2H PLASdek® | | | | | | | |
| Waste Water · Tricking filter | Strongly polluted water - high load | _____ | _____ | _____ | Strongly polluted water - high load | Strongly polluted water - high load | _____ |
| · Submerged biological treatment | Carbonaceous oxidation | _____ | _____ | _____ | Nitrification | Carbonaceous oxidation | _____ |
| 2H BIOdek® | | | | | | | |
| Mass Transfer | _____ | _____ | _____ | _____ | Biogas desulphurisation | Biogas desulphurisation | _____ |

General Remarks

| | |
|--------------------------------------|--|
| PVC-material: | Unplasticized (uPVC) |
| PP-material: | Impact-resistant, environmentally friendly |
| PVC and PP material: | Resistant to rot, fungi and most dissolved chemicals, UV-stabilized |
| Max. application temperature: | For waste water applications temperatures should not exceed 40 °C. For cooling tower applications the operational temperature should be measured at the inlet pipe of the system and should not exceed the maximum application temperature stated above. |
| High temperature applications: | Fill media in high-temperature version in PVC (up to 75 °C) and PP (up to 100 °C) available on request. |
| Flammability: | Products in flame retardant version according to American and European standards available on request. National regulations on fire protection should be taken into consideration before choosing a product. |
| Weight and bearing capacity: | Bearing capacity and weight/m ³ depend on sheet thickness. It will be selected according to customer specification in consideration of process conditions and safety factors for temperatures, lifetime and material properties. |
| Support requirements: | Recommendation for optimum solution for each application available on request. |
| Installation of continuous channels: | KVP media types can be installed with continuous vertical channels by a special installation system. |
| Max. tolerances: | On all dimensions +/- 20 mm or 2 %, whichever is the greater. Tighter tolerances by prior agreement. |

This information has been put together with greatest care. However, any performance data given in this leaflet is subject to compliance with certain surrounding conditions and hence may vary from case to case. Further, we reserve the right to make changes at any time without notice. We strongly recommend (i) reconfirmation with GEA 2H whether this information is still fully valid, before using it for final designs and (ii) to verify performance data taking into account the actual surrounding conditions. GEA 2H takes no responsibility for any consequences due to non-compliance with these recommendations.



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