Forlab - Worktop

# WORK SURFACES

We offer a wide range of worktops. All our worktops have a valid certificate of hygiene safety and certificate of mechanical and physical tests.

Possibilities of color design worktops, see chapter design.

## *PRESSED LAMINATED WORKTOPS*

- This material is intended for environments where worktop is not permanently exposed to the effects of water, moisture and chemicals (office, storage and desktop).
- Worktop is made from chipboard coated on both sides with melamine decorative foil. The board must be around the perimeter glued with ABS edge. Edge thickness is 2 mm, the radius at the corners R2; marked LM, tickness of 18 mm
- Raised edge for LM boards is not possible.
- The worktop must meet the basic requirements of ČSN EN 312-3.
- The chemical resistance of the material, see the Table.

## *POSTFORMING*

- This material is intended for environments where worktop is not permanently exposed to the effects of water, moisture and chemicals (office, storage and desktop).
- Worktop is made from chipboard covered with foil of high pressure laminate (HPL foil), front and bottom edges smoothly rounded - postforming. Temperature of resistance up to 150 ° C, shortly 250 ° C; marked PF; tickness of 28 and 38 mm.
- Raised edge for PF boards is not possible.
- The worktop must meet the basic requirements of ČSN EN 312-3.
- The chemical resistance of the material, see the Table.

## *HIGH PRESSURE LAMINATE*

- The material in the standard version is designed for medium-effort worktop which not coming into direct contact with strong chemicals for a long term. In the resistant version it is resistent to some chemicals.
- Worktop of high pressure laminate with thickness of 6 mm according to ČSN EN 438 glued to the structural board fitted around the perimeter with ABS edge. Temperature of resistance up to 180 ° C; marked HPL; thickness of 20 mm
- After consultation with the customer we can deliver HPL worktops with increased (raised) edge. Total board thickness is 31 mm.
- The worktop must meet the requirements of increased chemical resistance ČSN EN 14 411.
- The chemical resistance of the material, see the Table.

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## *POLYPROPYLEN*

- The material in the standard version is designed for medium-effort worktop which not coming into direct contact with strong chemicals for a long term. It is designed for worktops of laboratory tables and washing tables. Low thermal resistance up to 60 °C; marked PP; thickness of 28 mm.
- PP is resistant to oils, organic solvents and alcohols. Aromatics and halogenated hydrocarbons cause the acquisition. Not resistant (dissolve) in xylene or tetrahydronaphthalene. Not resistant against strongly oxidizing media (e.g. nitric acid, chromic acid or halogens).
- Surface of the worktop must be made from allover polypropylene - pp (certificate of chemical resistance according to EN 14411), glued to the structural board (PDJ - blockboard). Polypropylene must be on structural plate glued permanently by durable, plastic glue.
- After consultation with the customer we can deliver PP worktops with increased (raised) edge. Total board thickness is 36 mm.
- The worktop must meet the requirements of increased chemical resistance ČSN EN 14 411.
- The chemical resistance of the material, see the Table.

## *SAFETY GLASS*

- The surface of worktop is made of tempered glass glued to the structural board, around the perimeter glued with ABS plastic edge. The glass must be to structural board glued permanently by plastic glue, marked SG, thickness of 25 mm
- After consultation with the customer we can deliver SG worktop with increased plastic pusher edge.
- The worktop must meet the requirements of increased chemical resistance ČSN EN 14 411.
- The chemical resistance of the material, see the Table.

## *EPOXY RESIN*

- Worktop surface is uniform. The epoxy resin has high durability. Its resistance lies mainly in the resistance against moisture and water, however, it is resistant against commonly used chemicals. Other preferred properties include mechanical strength, abrasion resistance as well as compressive strength; marked DR ; thickness of 15 mm.
- After consultation with the customer we can deliver DR worktops with the raised edge. The total plate thickness of 25 mm. Raised edge is glued from the same material as the plate.
- The worktop must meet the requirements of increased chemical resistance ČSN EN 14 411.
- The chemical resistance of the material, see the Table.

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## *STAINLESS STEEL*

- Stainless steel AISI 304 is called - food steel. Marked as N304, thickness of 30 mm
- Stainless steel AISI 316 is chemically resistant. Marked as N316, thickness of 30 mm
- The worktop is made from stainless steel sheath with a thickness of 1,2 mm and a filling made of laminated chipboard.
- Working surfaces made of stainless steel, are designed for medium-effort worktop which not coming into direct contact with strong chemicals. They are mainly designed for worktops of washing tables, but sometimes they are used for laboratory tables.
- After consultation with the customer we can supply stainless steel worktops with the raised edge. The total worktop thickness of 30 mm.
- The chemical resistance of AISI 316, see the Table.

## *TILING*

- The surface of ceramic tiles worktop glued to the to the structural board to ensure dimensional stability and increased lift capacity of worktop, provided with the perimeter glued ABS edge. Ceramic tiles must be glued to the structural plate permanently by plastic glue and all the gaps must be cemented with acid resistent cement with high chemical resistance (chemical resistance certificate). Marked as DL, thickness of 25 mm mm
- After consultation with the customer we can supply stainless steel worktops with the raised edge. The total worktop thickness of 35 mm.
- The worktop must meet the requirements of increased chemical resistance ČSN EN 14 411.
- The chemical resistance of the material, see the Table.

## *ARTIFICIAL STONE*

- The surface of worktops is made from polished conglomerated stone. The worktop is a compact, hard, composite product. Worktops have polished edges from the front sides.
- Worktops made from artificial stone are used for high-effort working surfaces that come into short-term direct contact with strong chemicals. They are resistant to moisture and water. They have increased scratch resistance, but not resistant to impacts and thermal shocks. They are intended for laboratory tables and washing tables. Marked as UK, thickness of 20 mm..
- After consultation with the customer we can supply UK worktops with the raised edge. The total plate thickness is 28 mm. Raised edge is glued from the same material as the plate.
- The worktop must meet the requirements of increased chemical resistance ČSN EN 14 411.

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- The chemical resistance of the material, see the Table

### *TECHNICAL CERAMICS*

- The surface of worktop must consist of uniform quality burned off ceramic plate with high chemical and temperature resistance. The glaze must have a very good resistance against abrasions and impacts. Plate has a uniform rounded edge.
- Worktops made of technical ceramics are designed for high-effort working laboratory tables and washing tables. Worktops are resistant to scratching and abrasion. They are not resistant against dynamic efforts. Marked as KE, thickness of 20 mm.
- After consultation with the customer we can supply KE worktops with the raised edge. The total plate thickness is 28 mm.
- The chemical resistance of the material, see the Table.

### *DIMENSIONAL SERIES*

| | |
|---|---|
| Basic depths of worktops (mm): | 600, 675, 750, 900 |
| Basic widths of worktops (mm): | 900, 1200, 1500, 1800, 2100, 2400 |

In case when base width is unsuitable, worktop defines in the normal meters.

# WORK SURFACES

## Table of chemical resistance at 20 °C:

| Name | Laminate | Postforming | HPL | Polypropylene | Safetyglass | Epoxyresin | AISI 316 stainlesssteel | Tiling | Artificial stone | Tech. ceramics |
|---|---|---|---|---|---|---|---|---|---|---|
| Conc. ammonia | ● | ■ | ■ | ■ | ● | – | ■ | ● | ■ | ■ |
| Potassiumdichromate, 5% | ■ | ■ | ● | – | ● | ● | ● | ● | ● | ● |
| Ethanol | ● | ● | ● | – | ● | – | ● | ● | ● | ● |
| Ethylacetate | ● | ● | ● | ■ | ● | ● | ● | ● | ● | ● |
| Sodium hydroxide, 20% | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Chloroform | ● | ● | ● | ✕ | ● | ● | ● | ● | ● | ● |
| Isopropanol | ● | ● | ● | ● | ● | – | ● | ● | ● | ● |
| Iodine, 5% solution in chloroform | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Nitric acid, conc. | ✕ | ✕ | ✕ | ✕ | ● | ● | ✕ | ● | ● | ● |
| Hydrofluoric acid | ✕ | ✕ | ● | ● | ✕ | ■ | ✕ | ✕ | ✕ | ✕ |
| Phosphoric acid, conc. | ✕ | ✕ | ✕ | ● | ● | ● | ✕ | ● | ● | ● |
| Formic acid, conc. | ■ | ■ | ● | ● | ● | ● | ● | ● | ● | ● |
| Sulfuric acid, 50% | ✕ | ✕ | ✕ | ● | ● | ✕ | ✕ | ● | ● | ● |
| Hydrochloric acid, conc. | ✕ | ✕ | ✕ | ● | ● | ● | ✕ | ● | ● | ● |
| Potassiumpermanganate, 5% | ■ | ■ | ● | ■ | ● | – | ● | ● | ● | ● |
| n-Hexane | ● | ● | ● | ■ | ● | – | ● | ● | ● | ● |
| Hydrogen peroxide, 30% | ■ | ■ | ● | ■ | ● | ● | ● | ● | ● | ● |
| Petroleum ether | ● | ● | ● | ● | ● | – | ● | ● | ● | ● |
| Toluene | ● | ● | ● | ■ | ● | ● | ● | ● | ● | ● |

● *Long-term resistant*
■ *Short-term resistant*
✕ *Non-resistant*
– *Non-tested*

*NOTE: The table of material properties is for guidance only. If you have any doubt, we will be happy to advise you.*

# WORK SURFACES

| S1: Type designation |
|---|
| 205.01: Worktops |

| S1: Material design |
|---|
| DL1: Tiling 150x150 mm |
| DR: Epoxy resin (DURCON) |
| HPL: High-pressure laminate |
| KE: Technical ceramics |
| LM: Pressed laminated worktop |
| PF: Postforming |
| PP: Polypropylene worktop |
| SG: Safety glass |
| UK: Artificial stone |
| 304: Stainless steel worktop AISI 304 |
| 316: Stainless steel worktop AISI 316 |

| S2: Raised edge |
|---|
| 1N: Without a raised edge |
| 2H: With a raised edge |

| S3: Worktop depth | |
|---|---|
| **value** | **depth** |
| 600: Worktop depth | 600 mm |
| 675: Worktop depth | 675 mm |
| 750: Worktop depth | 750 mm |
| 900: Worktop depth | 900 mm |

| S4: Worktop width | | |
|---|---|---|
| **value** | **width** | **dimension** |
| Qxxxx: Dimension atypical width | mm | Dimension is millimeters |
| 0900: Worktop width | 900 mm | |
| 1200: Worktop width | 1200 mm | |
| 1500: Worktop width | 1500 mm | |
| 1800: Worktop width | 1800 mm | |
| 2100: Worktop width | 2100 mm | |
| 2400: Worktop width | 2400 mm | |

| S5: Atypical execution |
|---|
| O: Typical execution |
| Q: Atypical execution |
| Typical execution<br>0 - clear choice from the options<br>Atypical execution<br>Q - Atypical design, which can not be clearly identified by means of code |