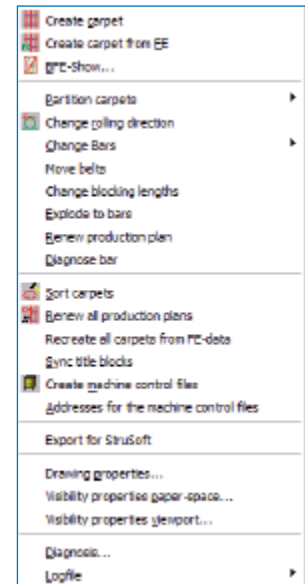
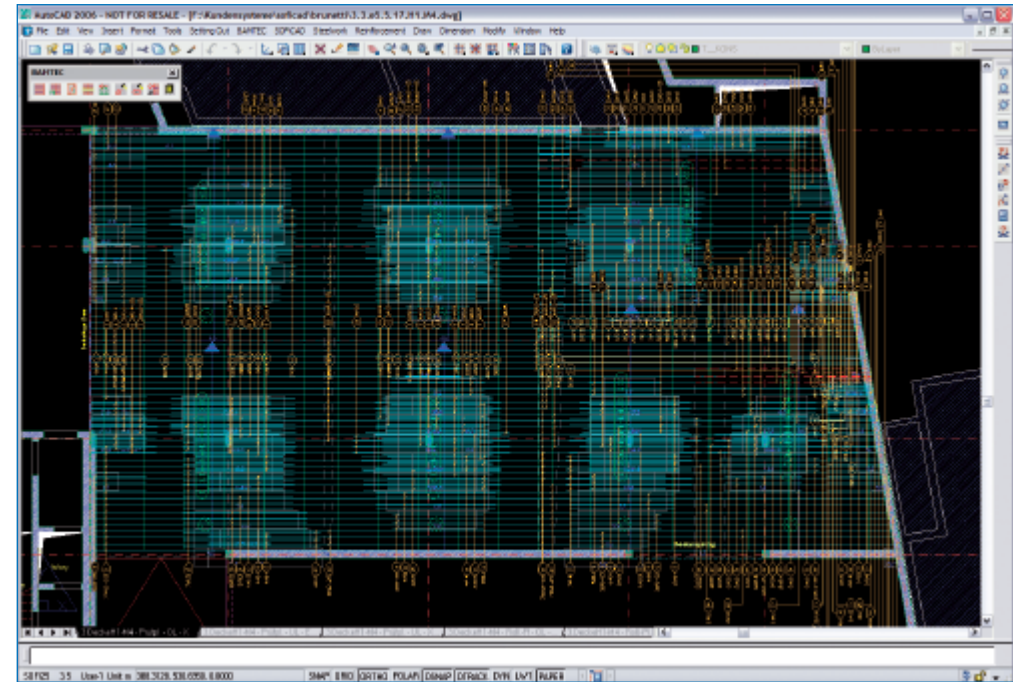


BAMTEC uses tailor made reinforcement carpets for reinforced concrete slabs or floor slabs, rather than conventional reinforcement mats. These carpets are made out of round steel bars, which are uni-axially arranged. The steel bars are held in position by transversely arranged mounting strips. The bars and the strips are welded together to form a custom-made reinforcement carpet. Due to the fact that the carpets are produced individually for any plan and structural analysis, excess material is almost reduced to zero. Up to 40% of material can be saved in comparison to conventional reinforcement mats.

After the carpet geometries were determined in the engineering office, SOFiCAD (optional on the basis of a preceding Finite-Element analysis, e.g. SlabDesigner) is used to automatically generate the inspection-, manufacturing- and rollout-plans. Simultaneously to this process the machine control files are generated.

The entire process chain for slab design and production is covered by the programs SlabDesigner, SOFiCAD-reinforcement and BAMTEC. This will result in much more economical planning and construction.

- Fully automatic generation of the carpets and their corresponding rollout-, inspection and manufacturing plans, whereby layouts are fully supported in AutoCAD, i.e. all the plans are in one file.
- Generation with or without corresponding FEM-analysis.
- Subsequent division of the carpets, i.e. rollout regions are only allocated, once the dimensions of the carpet are known, e.g. very important, in case the carpet is too heavy
- Subsequent adjustments to the rolling direction
- Additional reinforcement areas can be defined (for safety purpose)
- Bar diameters and lengths can be changed subsequently. The steel list of the plan will be changed automatically.
- Subsequently the carpet can be decomposed to its original arrangement, this results in steel bar relocation (if SOFiCAD-reinforcement is available)
- Plans can be updated after changes were made
- On the push of a button, the machine control files will be generated in an arbitrary directory.
- Program control via an intuitive right-click menu or the toolboxes



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