



October 22, 2007 - Press Release

New SIMONA® Twin-wall sheet

Second generation of groundbreaking product paves way for construction of non-steel-reinforced tanks in larger sizes – potential cost savings of up to 30%

Kirn, 22/10/07. SIMONA will be showcasing its second generation of twin-wall sheets at this year's plastics trade fair K in Düsseldorf/Germany, held from October 24 to 31, 2007. With the help of SIMONA's next generation of twin-wall sheets it will be possible to construct rectangular plastic tanks with a volume in excess of 5 m³ – without the need for steel reinforcements. Until now, producing tanks of this size was not possible without the use of steel components.

The twin-wall sheet developed by SIMONA combines rigidity and stability with light-weight design. The second-generation product features variable web spacing for enhanced robustness, thus allowing the construction of non-steel-reinforced rectangular tanks with volumes in excess of 5 m³; sizes of more than 10 m³ can be achieved if interior tie rods are deployed. What is more, SIMONA's latest innovation within this area is capable of delivering cost savings of up to 30%, mainly due to the absence of steel reinforcements, which have to be welded and lined in conventional designs. The new twin-wall sheet provides high levels of thermal insulation, as well as offering good chemical resistance.

SIMONA twin-wall sheets can be used in a wide range of applications. Within the construction industry prime examples include lightweight formwork, walk-on swimming-pool covers and sound barriers with and without packing. Potential fields of application in the chemical equipment and mechanical engineering industry include tanks/vessels, covers for electroplating baths and floating pontoons for pipelines and supply lines at sea. In the agricultural sector, twin-wall sheets can be used as linings for silos and storage containers, while possible areas of application within the automotive industry include interior liners for truck trailers.

SIMONA's new twin-wall sheets are available in PE, PP and PPs. The company will test the structural integrity of each rectangular tank free of charge by means of FEM analysis (Finite Element Method).

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