

Project: office building Kreutzwaldi 3, Tallinn, Estonia
foundation floor
October 2011



no additional reinforcement except in reentering corners and as connector between dayfields



fast installation process (1 field per day including all additional reinforcement)



easy pumpability and workability;
Severstal-metiz concrete design in cooperation with the concrete supplier

	traditional solution	Hendix solution
concrete	d = 800mm, A=2060m², Volume V= 1648 m³	d = 700mm, A=2060m², Volume V= 1442 m³
reinforcement	# ø16, e=15 ↓ 42,13kg/m ² = 52,67kg/m ³ = total 86,8 to	no reinforcement needed
distancer (5% of area reinforcement)	2,11kg/m ² = 2,63kg/m ³ = total 4,34 to	no reinforcement needed
stirups	ø10, e=15, l=3m = 3640m 1,09kg/m ² = 1,36kg/m ³ = total 2,25 to	no reinforcement needed
reinforcement in field-connector	no reinforcement needed	ø16, e=15 ↓, l=3,5m, 91m joints 3,26kg/m ² = 4,65kg/m ³ = total 6,71 to
total reinforcement	45,33 kg/m ² = 56,66 kg/m ³ = total 93,4 to	3,26 kg/m ² = 4,65 kg/m ³ = total 6,71 to
fibers		70 kg/m ³ Hendix prime 75/52 = total 100,94 to