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The screenshot displays the VCmaster software interface. On the left, a 'Model' window shows a beam with a distributed load. The 'System' parameters are: System length L = 4.50 m, Cross-section width b = 0.20 m, and Cross-section height h = 0.30 m. The 'Loads' section lists: Permanent actions:  $1.35 \cdot b \cdot h \cdot 25 = 2.02 \text{ kN/m}$ , Variable actions:  $1.50 \cdot 2.50 = 3.75 \text{ kN/m}$ , and a total load  $q_d = 5.77 \text{ kN/m}$ . The 'Calculation' section shows:  $M = q_d \cdot \frac{L^2}{8} = 14.61 \text{ kNm}$  and  $Q = q_d \cdot \frac{L}{2} = 12.98 \text{ kN}$ . A 'VCmaster' dialog box is open, displaying system information and contact details for VEIT CHRISTOPH GMBH. A red wax seal and a 'GIFTS' bag icon are overlaid on the interface. On the right, the 'Template Explorer' shows a tree view of templates, and the 'Slab reinforcement' panel displays a diagram and detailed calculation results for bending and distribution reinforcement.

**Slab reinforcement**

**Data given**

Overall depth h =	200.0 mm
Effective depth d =	165.0 mm
1-m-wide slab strip b =	1000.0 mm
Required Moment M =	30.0 kNm

**Material properties**

Concrete grade C =	SEL('EC2_BSConcrete'; Grade; )	=	C20/25
$f_{ck}$ =	TAB('EC2_BSConcrete'; fck; Grade=C)	=	20.0 N/mm <sup>2</sup>
$f_{yk}$ =		=	500.0 N/mm <sup>2</sup>

**Bending reinforcement calculation**

K =	$\text{MIN}\left(\frac{M}{b \cdot d^2 \cdot f_{ck}}; 0.167\right)$	=	0.055
$f_{ct,eff}$ =	$\text{MIN}\left(0.5 \cdot (1 + \sqrt{1 - 3.53 \cdot K}); 0.95\right)$	=	0.949
z =	$\frac{d \cdot f_{ct,eff}}{M}$	=	156.6 mm
$A_s$ =	$\frac{0.87 \cdot z \cdot f_{yk}}{M}$	=	440.4 mm <sup>2</sup> /m
min $A_s$ =	$b \cdot h \cdot 0.016 / 100 \cdot f_{ct,eff}^2$	=	235.8 mm <sup>2</sup> /m
$A_s$ =	$\text{MAX}(A_s; \text{min } A_s)$	=	440.4 mm <sup>2</sup> /m

**Reinforcing**

**Main reinforcement**

Diameter $d_s$ =	SEL('EC2_BSAs'; $d_s$ ; )	=	8 mm
Reinf =	SEL('EC2_BSAsSp'; R; $d_s = d_s; a_s > A_s$ )	=	H8 at 100
$A_{s,prov}$ =	TAB('EC2_BSAsSp'; $a_s$ ; R=Reinf)	=	503.0 mm <sup>2</sup> /m
Spacing e =	TAB('EC2_BSAsSp'; e; R=Reinf)	=	100.0 mm
Max. spacing $e_{max}$ =	$3 \cdot d_s$	=	495.0 mm
$e / e_{max}$ =	$0.20 \leq 1$		

**Distribution reinforcement**

Diameter $d_s$ =	SEL('EC2_BSAs'; $d_s$ ; )	=	8 mm
Reinf =	SEL('EC2_BSAsSp'; R; $d_s = d_s; a_s > \text{min } A_s$ )	=	H8 at 200
$A_{s,prov}$ =	TAB('EC2_BSAsSp'; $a_s$ ; R=Reinf)	=	251.0 mm <sup>2</sup> /m
Spacing e =	TAB('EC2_BSAsSp'; e; R=Reinf)	=	200.0 mm
Max. spacing $e_{max}$ =	$3.5 \cdot d_s$	=	577.5 mm
$e / e_{max}$ =	$0.35 \leq 1$		

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