Récapitulatif des formules

A_n		=	$b \cdot h - (n \cdot d_i) \cdot (h_{ii} + h_i) - b_u \cdot t_i$
A_K		=	$(b - m \cdot d) \cdot h_{ii}$
A_A		=	$(b - m \cdot d) \cdot h_i$
g		=	$(A_b \cdot \rho_{Holz} + A_K \cdot \rho_{Isolation} + A_A \cdot \rho_{Absorber}) / 1000^2 / b \cdot 1000$
s_y		=	$(m \cdot d \cdot h^2/2 + (n \cdot d_i - b_u) \cdot t_i^2/2 + n \cdot d_i \cdot t_{ii} \cdot (t_i + h_i + t_{ii}/2) + n \cdot d_i \cdot t_{iii} \cdot (h - t_{iii}/2)) / A_n$
I_y		=	$m \cdot d \cdot h^3/12 + m \cdot d \cdot h \cdot (h/2 - s_y)^2 + (n \cdot d_i - b_u) \cdot t_i^3/12 + (n \cdot d_i - b_u) \cdot t_i \cdot (s_y - t_i/2)^2 + n \cdot d_i \cdot t_{ii}^3/12 + n \cdot d_i \cdot t_{ii} \cdot (s_y - t_i - h_i - t_{ii}/2)^2 + n \cdot d_i \cdot t_{iii}^3/12 + n \cdot d_i \cdot t_{iii} \cdot (h - s_y - t_{iii}/2)^2$
S_y	$(s_y \le t_i)$	=	$m \cdot d \cdot s_y^2/2 + (n \cdot d_i - b_u) \cdot s_y^2/2$
S_y	$(t_i < s_y \le t_i + h_i)$	=	$m \cdot d \cdot s_y^2/2 + (n \cdot d_i - b_u) \cdot t_i \cdot (s_y - t_i/2)$
S_y	$(t_i + h_i < s_y \le t_i + h_i + t_{ii})$	=	$m \cdot d \cdot s_y^2/2 + (n \cdot d_i - b_u) \cdot t_i \cdot (s_y - t_i/2) + n \cdot d_i \cdot (s_y - (t_i + h_i))^2/2$
S_y	$(t_i + h_i + t_{ii} < s_y \le h - t_{iii})$	=	$m \cdot d \cdot (h - s_y)^2/2 + n \cdot d_i \cdot t_{iii} \cdot (h - s_y - t_{iii}/2)$
S_y	$(h - t_{iii} \le s_y)$	=	$m \cdot d \cdot (h - s_y)^2/2 + n \cdot d_i \cdot (h - s_y)^2/2$
A_w		=	$m \cdot d \cdot I_y / S_y$
$R_{v,z,k}$		=	$A_w \cdot f_{v,k}$
$R_{m,y,k}$		=	$\text{MIN}(I_y/(h - s_y) \cdot f_{m,k}\,;\, I_y/s_y \cdot f_{m,k})$
$R_{v,z,d,SIA}$		=	$A_w \cdot f_{v,d}$
$R_{m,y,d,SIA}$		=	$\text{MIN}(I_y/(h - s_y) \cdot f_{m,d}\,;\, I_y/s_y \cdot f_{m,d})$
$A_{n,fi}$		=	$b \cdot h_{fi} - (n \cdot d_i) \cdot (h_{ii} + h_{i,fi}) - b_u \cdot t_{i,fi}$
$s_{y,fi}$		=	$(m \cdot d \cdot h_{fi}^2/2 + (n \cdot d_i - b_u) \cdot t_{i,fi}^2/2 + n \cdot d_i \cdot t_{ii,fi} \cdot (t_{i,fi} + h_{i,fi} + t_{ii,fi}/2) + n \cdot d_i \cdot t_{iii} \cdot (h_{fi} - t_{iii}/2)) / A_{n,fi}$
$I_{y,fi}$		=	$m \cdot d \cdot h_{fi}^3/12 + m \cdot d \cdot h_{fi} \cdot (h_{fi}/2 - s_{y,fi})^2 + (n \cdot d_i - b_u) \cdot t_{i,fi}^3/12 + (n \cdot d_i - b_u) \cdot t_{i,fi} \cdot (s_{y,fi} - t_{i,fi}/2)^2 + n \cdot d_i \cdot t_{ii,fi}^3/12 + n \cdot d_i \cdot t_{ii,fi} \cdot (s_{y,fi} - t_{i,fi} - h_{i,fi} - t_{ii,fi}/2)^2 + n \cdot d_i \cdot t_{iii}^3/12 + n \cdot d_i \cdot t_{iii} \cdot (h_{fi} - s_{y,fi} - t_{iii}/2)^2$
$S_{y,fi}$	$(s_{y,fi} \le t_{i,fi})$	=	$m \cdot d \cdot s_{y,fi}^2/2 + (n \cdot d_i - b_u) \cdot s_{y,fi}^2/2$
$S_{y,fi}$	$(t_{i,fi} < s_{y,fi} \le t_{i,fi} + h_{i,fi})$	=	$m \cdot d \cdot s_{y,fi}^2/2 + (n \cdot d_i - b_u) \cdot t_{i,fi} \cdot (s_{y,fi} - t_{i,fi}/2)$
$S_{y,fi}$	$(t_{i,fi} + h_{i,fi} < s_{y,fi} \le t_{i,fi} + h_{i,fi} + t_{ii,fi})$	=	$m \cdot d \cdot s_{y,fi}^2/2 + (n \cdot d_i - b_u) \cdot t_{i,fi} \cdot (s_{y,fi} - t_{i,fi}/2) + n \cdot d_i \cdot (s_{y,fi} - (t_{i,fi} + h_{i,fi}))^2/2$
$S_{y,fi}$	$(t_{i,fi} + h_{i,fi} + t_{ii,fi} < s_{y,fi} \le h_{fi} - t_{iii})$	=	$m \cdot d \cdot (h_{fi} - s_{y,fi})^2/2 + n \cdot d_i \cdot t_{iii} \cdot (h_{fi} - s_{y,fi} - t_{iii}/2)$
$S_{y,fi}$	$(h_{fi} - t_{iii} \le s_{y,fi})$	=	$m \cdot d \cdot (h_{fi} - s_{y,fi})^2/2$
$A_{w,fi}$		=	$m \cdot d \cdot I_{y,fi} / S_{y,fi}$
$R_{v,z,k,fi}$		=	$A_{w,fi} \cdot f_{v,k,fi}$
$R_{m,y,k,fi}$		=	$\text{MIN}(I_{y,fi}/(h_{fi} - s_{y,fi}) \cdot f_{m,k,fi}\,;\, I_{y,fi}/s_{y,fi} \cdot f_{m,k,fi})$
$R_{v,z,d,fi,SIA}$		=	$A_{w,fi} \cdot f_{v,d,fi}$
$R_{m,y,d,fi,SIA}$		=	$\text{MIN}(I_{y,fi}/(h_{fi} - s_{y,fi}) \cdot f_{m,d,fi}\,;\, I_{y,fi}/s_{y,fi} \cdot f_{m,d,fi})$