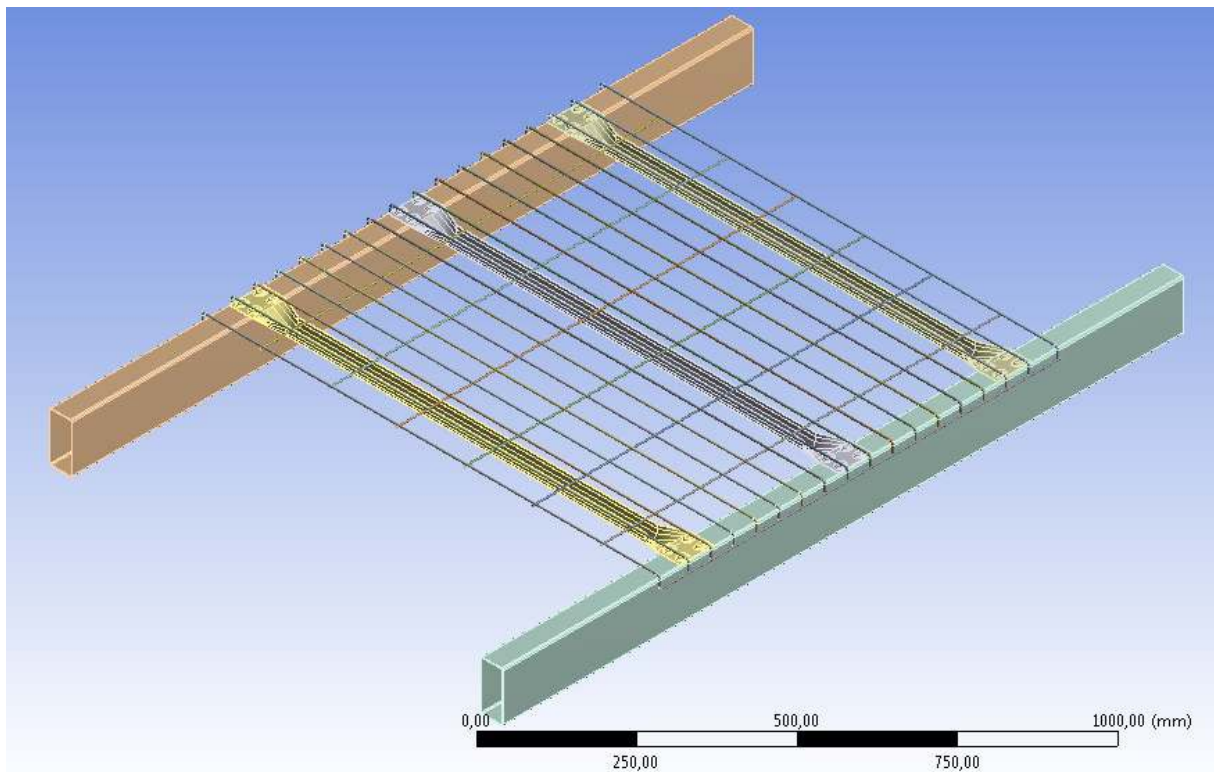




FICHE TECHNIQUE CALCULS CALCULATIONS DATA SHEET



PLANCHER METALLIQUE WIRE DECKING

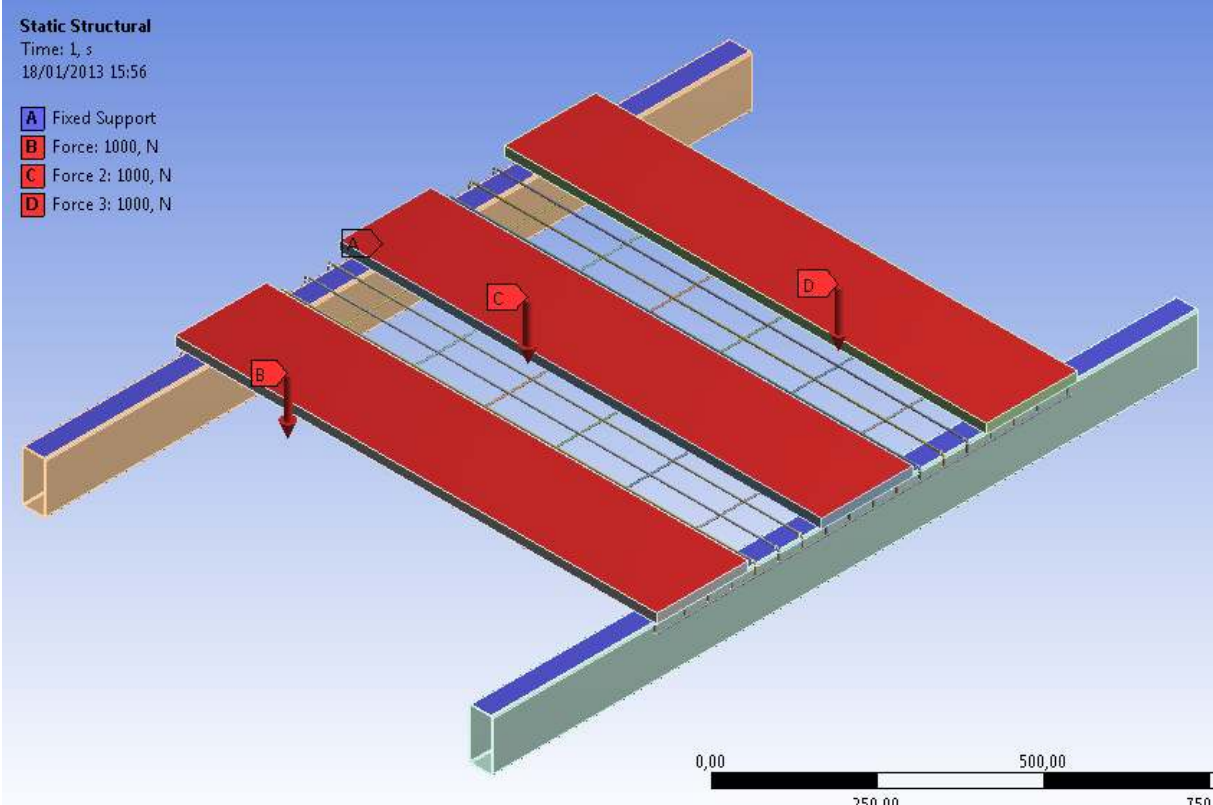
ref. 09017

First Saved	Friday, January 18, 2013
Last Saved	Friday, January 18, 2013
Product Version	14.0 Release

CHARGEMENT / LOADING

Chargement : CUR de 300kg (3x 1000 N en Y-)
 Loading : Uniform load of 300 kg (3 x 1000 N in Y- direction on each doubler)

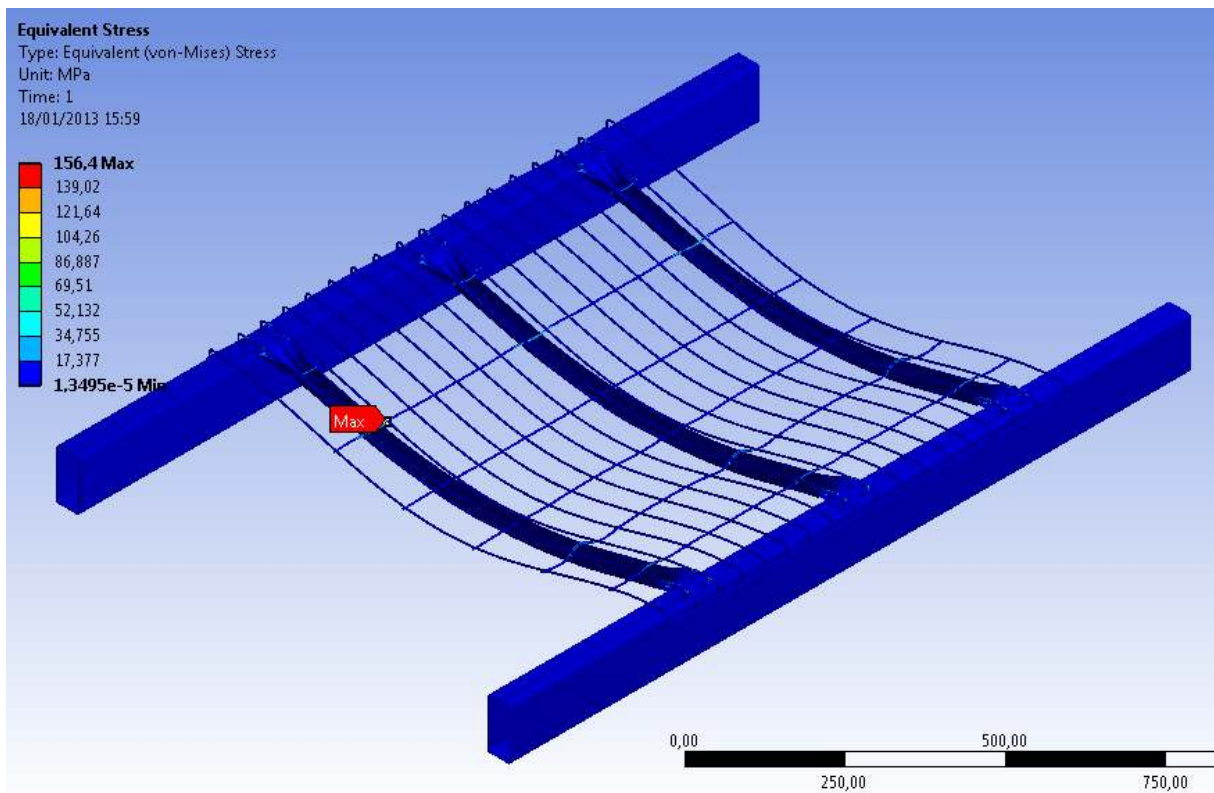
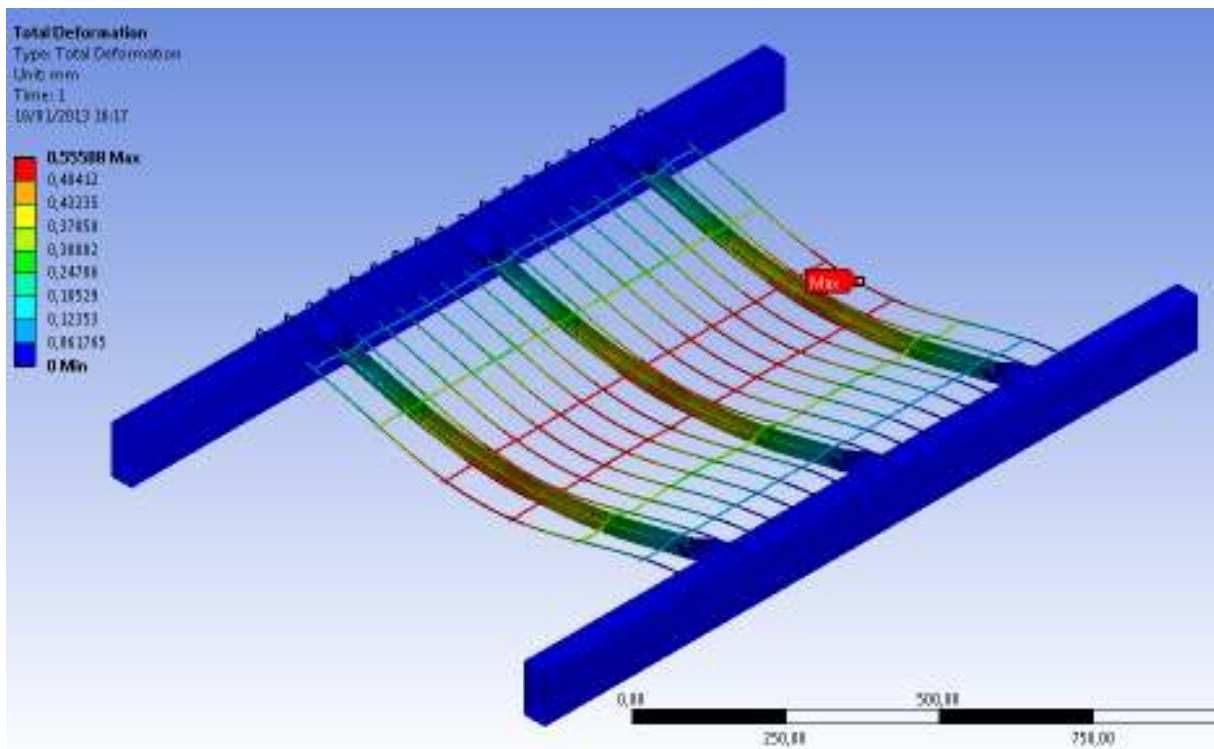
Supports fixes : surfaces supérieures des lisses
 Fixed support : stringer faces



RESULTATS / RESULTS

TABLE 70
Model (A4) > Static Structural (A5) > Solution (A6) > Results

Object Name	Total Deformation	Minimum Principal Stress
State	Solved	
Scope		
Scoping Method	Geometry Selection	
Geometry	All Bodies	
Results		
Maximum	0,56 mm	156,40 MPa



RESISTANCE / STRENGTH CONDITION

La limite d'élasticité R_e est la contrainte à partir de laquelle un matériau commence à se déformer de manière irréversible.

Elastic limit R_e is the stress when the material begins to be strained irreversibly.

Limite d'élasticité R_e / Elastic limit R_e (MPa)
250

$$\sigma_{\max} \leq R_{pe} \qquad R_{pe} = \frac{R_e}{s}$$

Coefficient de sécurité / Safety factor
1.5

Contrainte Pratique de limite élastique R_{pe} / Elastic limit Stress R_{pe} (MPa)
166

Resistance / Strength Condition : Stress < R_{pe}

Nous avons / We have :

Equivalent (Von Mises) Stress (MPa)
156,40

Conclusion / Conclusion

Le plancher métallique ref. 09017 supporte une CUR de 300 kg / Wire decking ref. 09017 can support an uniform load of 300 kg (3x 1000 N in Y- direction).