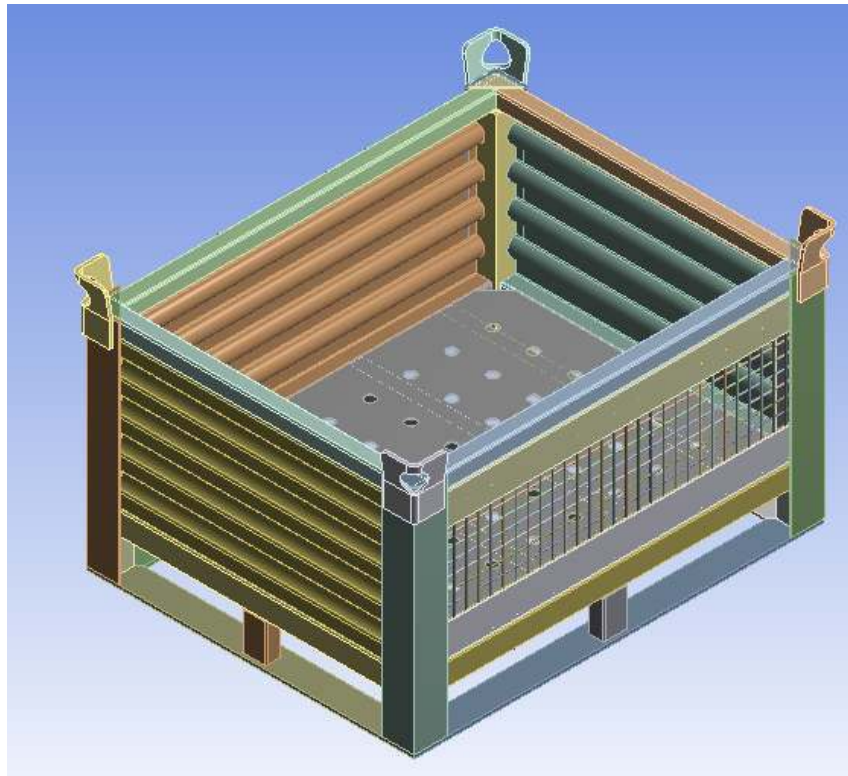




FICHE TECHNIQUE CALCULS CALCULATIONS DATA SHEET



CAISSE TOLEE 1000x800 METALLIC BOX 1000x800

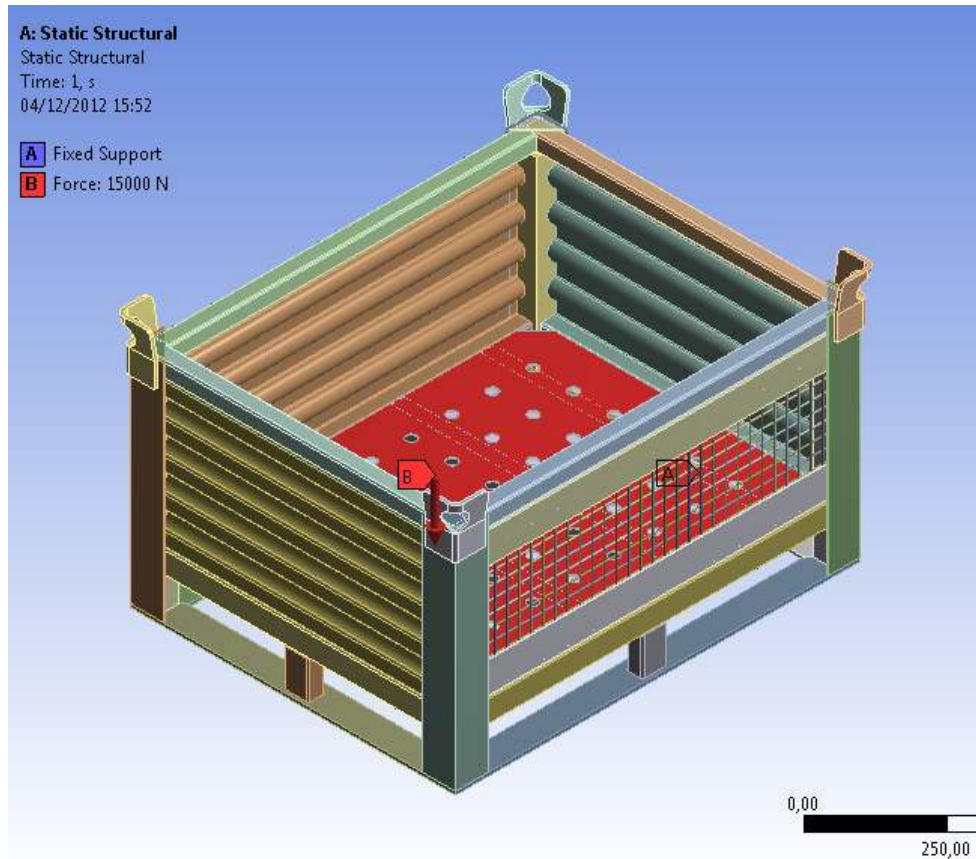
ref. 12-0614

| | |
|-----------------|----------------------------|
| First Saved | Monday, December 03, 2012 |
| Last Saved | Tuesday, December 04, 2012 |
| Product Version | 14.0 Release |

CHARGEMENT / LOADING

Chargement : CUR de 1500kg (15000 N en Y-)
 Loading : Uniform load of 1500 kg (15000 N in Y- direction)

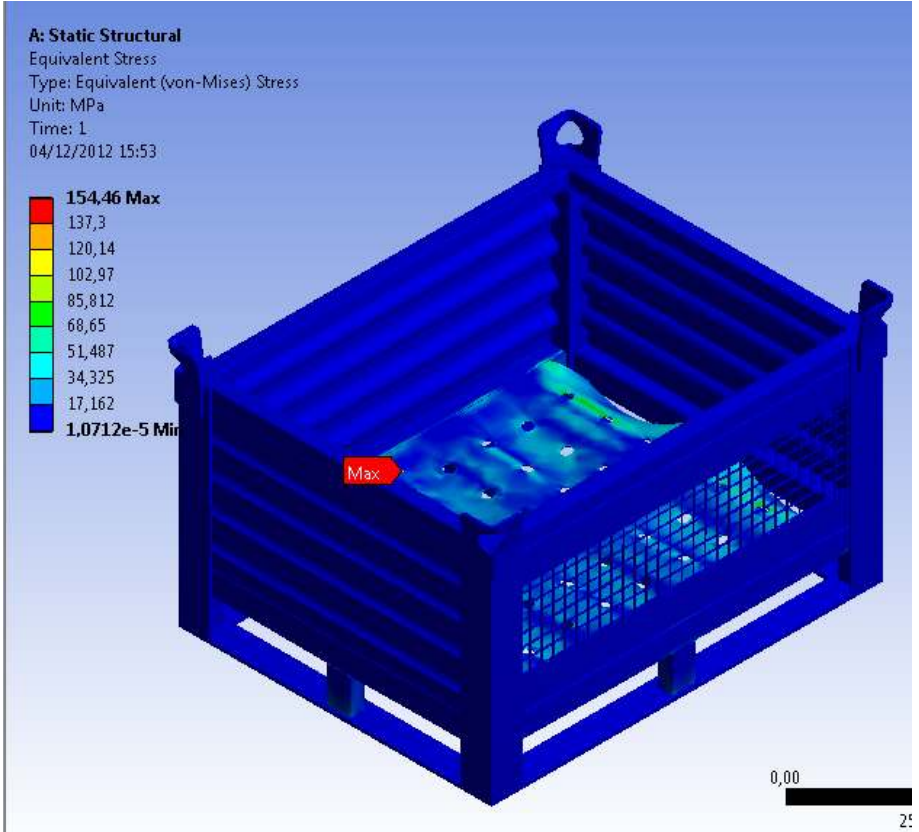
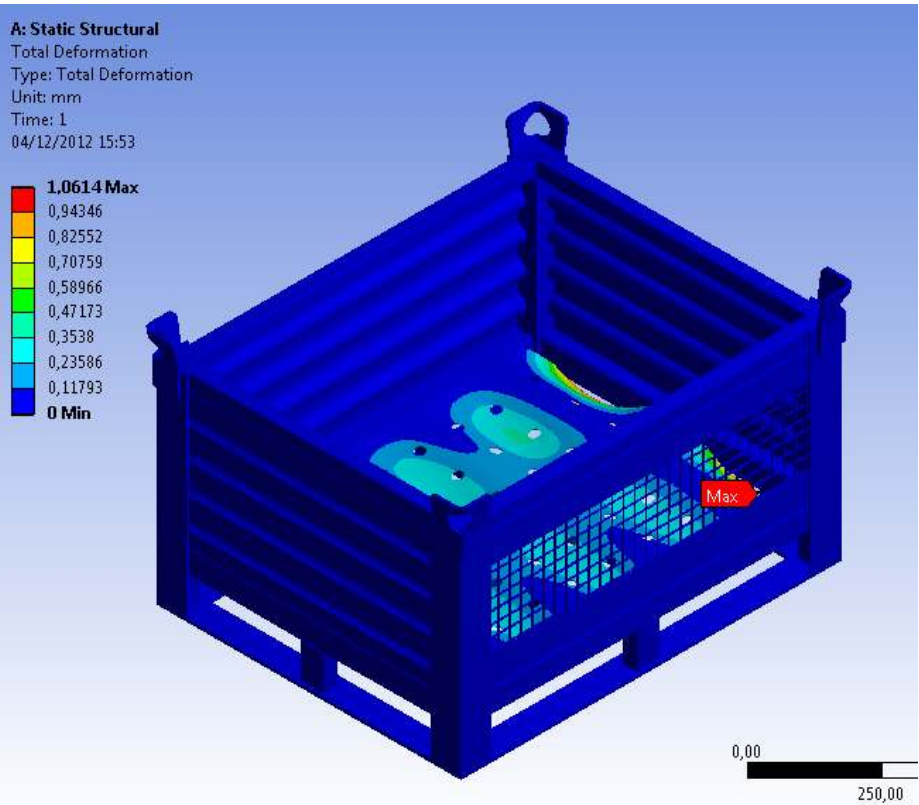
Supports fixes : surfaces inférieures des skis
 Fixed support : up faces



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 | | |
| Minimum | 0, mm | -736,1 MPa |
| Maximum | 1,0614 mm | 154,46 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 |

$$\sigma_{\max} \leq R_{pe}$$

$$R_{pe} = \frac{R_e}{s}$$

| 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) |
|-------------------------------------|
| 154,46 |

Conclusion / Conclusion

La caisse tôle réf.12-0614 supporte une CUR de 1500 kg / Metallic box ref.12-0614 can support an uniform load of 1500 kg (15000 N in Y- direction).