```
for triangle K in grid.triangles:

for DoF \phi_i in K.dofs:

b_h [\phi_i. globalIndex] += f \int_{\hat{K}} \hat{\phi}_i \left| \det \left( \hat{\nabla} T_K(\hat{x}) \right) \right| \ d\hat{x}

for DoF \phi_j in K.dofs:

A_h [\phi_i. globalIndex, \phi_j. globalIndex] += (
a \int_{\hat{K}} \left( \hat{\nabla} T_K(\hat{x})^{-T} \hat{\nabla} \hat{\phi}_i \right) \cdot \left( \hat{\nabla} T_K(\hat{x})^{-T} \hat{\nabla} \hat{\phi}_j \right) \left| \det \left( \hat{\nabla} T_K(\hat{x}) \right) \right| \ d\hat{x} +
c \int_{\hat{K}} \hat{\phi}_i \cdot \hat{\phi}_j \left| \det \left( \hat{\nabla} T_K(\hat{x}) \right) \right| \ d\hat{x}

)
```