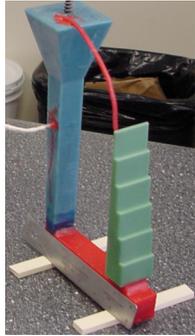
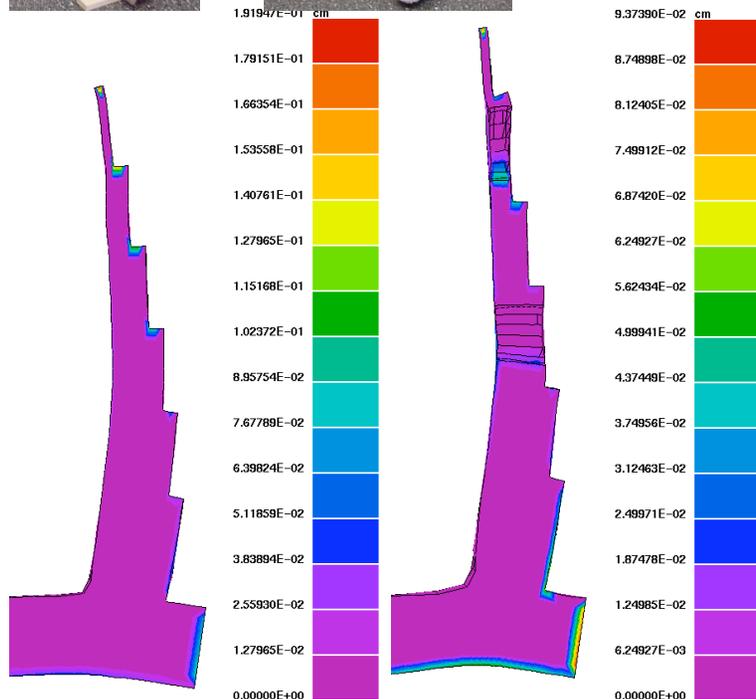


# Alloy Deformation Module Was Validated for the Investment Casting Process

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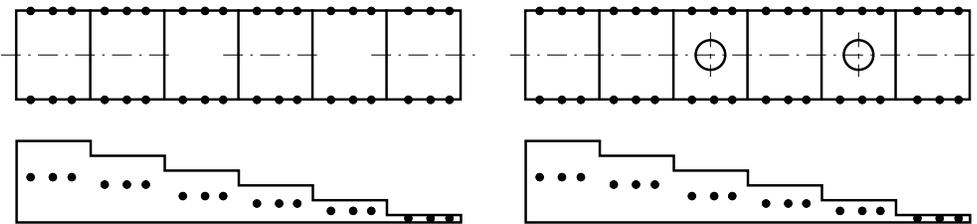


Excellent agreement was obtained for the shrinkage of an A356 aluminum alloy casting.

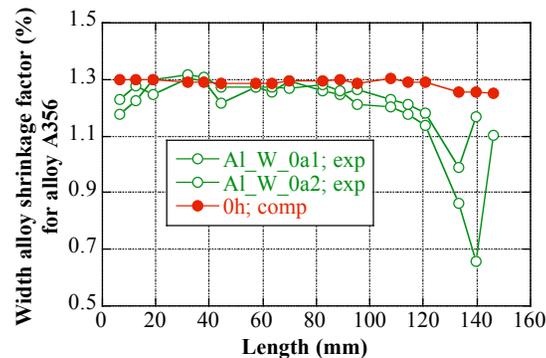


Unrestrained casting dimensions. *Procast* Restrained casting dimensions. *Procast*

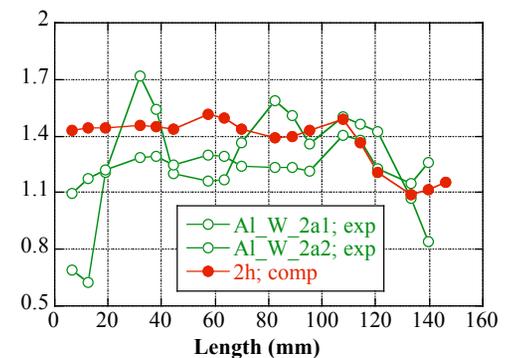
•Displacement magnified 15 times.



Dimensions were estimated at indicated points.



•Unrestrained dimensions.



•Restrained dimensions.

The effect of mold restraint can now be determined from numerical simulations: Restrained casting is longer than the unrestrained one.