Alloy Deformation Module Was Validated for the Investment Casting Process

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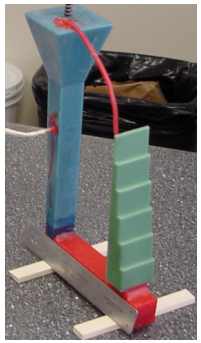
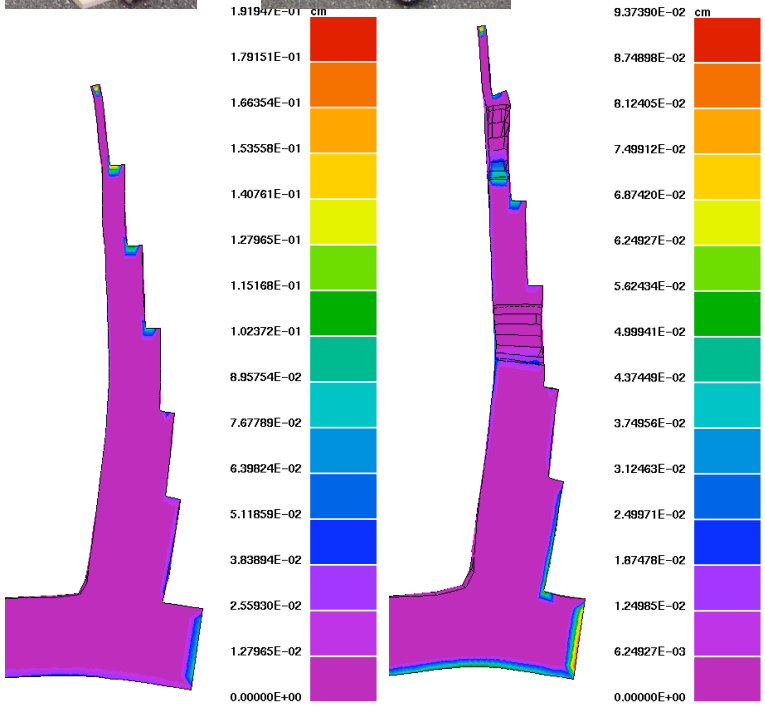


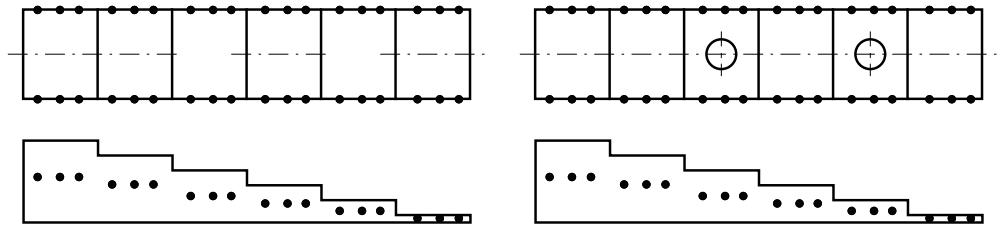


Unrestrained casting dimensions.

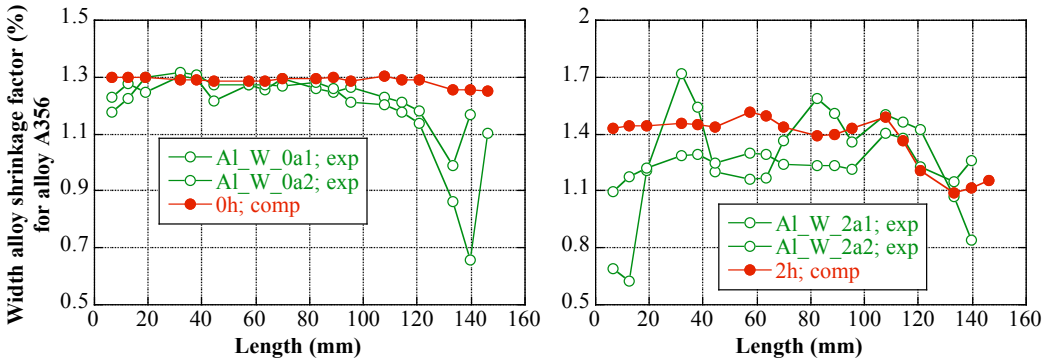
Restrained casting dimensions.

•Displacement magnified 15 times.

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



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.