```
function plotAxialStrain(figName, folder, direction)
  arguments;
     figName = "temp";
     folder = "static_EW_force";
     direction = "EW";
  end

  try
     [eo1, Kx1, Ky1, ~] = readvars(".\" +folder+ "\Results_static\SecD_W1_base.txt");
      [eo2, Kx2, Ky2, ~] = readvars(".\" +folder+ "\Results_static\SecD_W2_base.txt");
   catch
      [eo1, Kx1, Ky1, ~] = readvars(".\" +folder+ "\Results_dynamic\SecD_W1_base.txt");
      [eo2, Kx2, Ky2, ~] = readvars(".\" +folder+ "\Results_dynamic\SecD_W2_base.txt");
   end

   figure(1); hold on
   set(gca,'DefaultLineLineWidth',2)
   if direction == "EW"
      K1 = Ky1; K2 = Ky2;
   elseif direction == "NS"
      K1 = Kx1; K2 = Kx2;
   end

   plot(K1,eo1,'r-','DisplayName','Wall 1') % Wall 1
   plot(-K2,eo2,'b-','DisplayName','Wall 2') % Wall 2

   grid on; legend('Location','northwest');
   xlabel('Curvature \kappa_y [1/in]');
   ylabel('Centroidal strain \epsilon_o [-]');
   title("Axial Strain Versus Curvature");
   grid on; legend('Location','northwest');

   if direction == "EW"
      xlabel('Curvature \kappa_y [1/in]');
   elseif direction == "NS"
      xlabel('Curvature \kappa_x [1/in]');
   end

   ylabel('Centroidal strain [-]');

   idx = getMaxDispIdx(folder);
   scatter(K1(idx),eo1(idx),'ks','filled','HandleVisibility','off') % Wall 1
   scatter(-K2(idx),eo2(idx),'ks','filled','DisplayName','Max. Drift') % Wall 2
   legend('Location','north')
   print_figure(figName)

end
```