$$\Sigma_{\text{COH}}^{static}(\mathbf{r}, \mathbf{r}') = \frac{1}{2}\delta(\mathbf{r} - \mathbf{r}')W_p(\mathbf{r}, \mathbf{r}'; E = 0)$$
$$= \frac{1}{2}\delta(\mathbf{r} - \mathbf{r}')(W - v),$$