Supplementary Figure S1: Proportion of correct responses in Experiment1 in Session 1 (left column) and Session 2 (right column) as a function of SOA and target/mask congruency for Type-A observers (A), Type-B observers (B), Underachievers (C), and Overachievers (D). Error bars represent within-subjects standard errors (Loftus & Masson, 1994). Note, that response bias and sensitivity are heavily confounded (for a detailed explanation see text and Albrecht & Mattler, in revision). For Type-A observers the proportion of correct responses at 24 ms SOA is below chance level for incongruent trials. This already points to an influence of response bias in these participants.
Supplementary Figure S2: Individual masking functions in Experiment 4 for each participant in terms of $d'$
Supplementary Figure S3: Response Criterion C in Experiment 4 for each participant. Blue lines/square symbols = square mask, red lines/diamond symbols = diamond mask.