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Given a set  $F$  of integer partitions of  $n$ . We study the filter  $\Pi(F)$  of the set partition lattice  $\Pi_n$  generated by the set partitions which has their types in  $F$ . We obtain the homology groups for the associated order complex  $\Delta(\Pi(F))$ . Our results extend work of Calderbank, Hanlon and Robinson, and Wachs on the  $d$ -divisible partition lattice and work by Ehrenborg and Jung. (Received August 25, 2015)