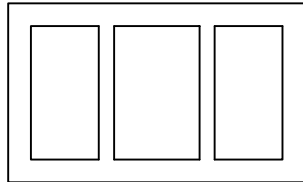
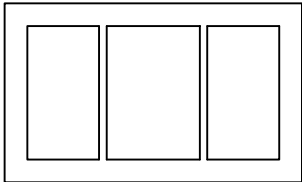
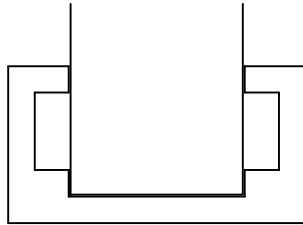
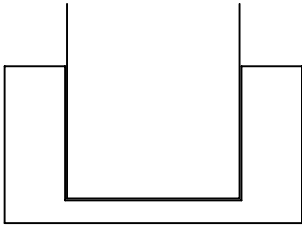


## UNIFORM WALL THICKNESS

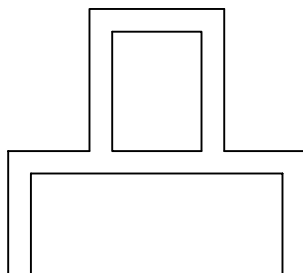
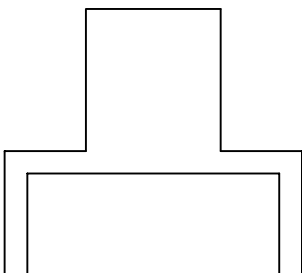
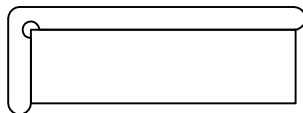
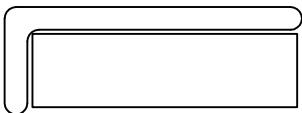


IT IS ACCEPTABLE TO HAVE A RANGE OF WALL THICKNESSES WITHIN A SINGLE PROFILE, HOWEVER UNIFORM WALL THICKNESS WILL MAKE THE PROFILE EASIER TO EXTRUDE.

IT IS AN ADVANTAGE IF THE INTERNAL AND EXTERNAL WALL THICKNESSES ARE SIMILAR - THIS DECREASES DIE STRESS AND IMPROVES EXTRUDABILITY.

IT IS ACCEPTABLE TO HAVE WALLS OF DIFFERENT THICKNESSES WHERE THE ADVANTAGE OUTWEIGH THE DISADVANTAGE - eg. FOR STRENGTH REASONS IT MAY BE BEST TO CONCENTRATE WEIGHT AWAY FROM THE CENTRE OF MASS.

## USE OF SOFT LINES



EXTRUSION CANNOT ACHIEVE RAZOR SHARP CORNERS. CORNERS NEED TO BE ROUNDED AND OFTEN 0.5mm - 1mm IS SUFFICIENT.

A DESIGN MAY SOMETIMES DEMAND SHARP INTERNAL ANGLES TO ENCLOSE SHAPES - THIS IS OVERCOME BY INCORPORATING A SMALL CUT OUT

SHARP TIPS SHOULD BE AVOIDED WHERE POSSIBLE AS THE TIP CAN BECOME WAVY AND UNEVEN - TIPS SHOULD ALSO BE ROUNDED.

PROFILES WITH LARGE VARIATIONS IN WALL THICKNESS COOL UNEVENLY. THIS GIVES RISE TO A VISIBLE STRUCTURAL UNEVENNESS THAT IS PARTICULARLY MARKED AFTER ANODISING.