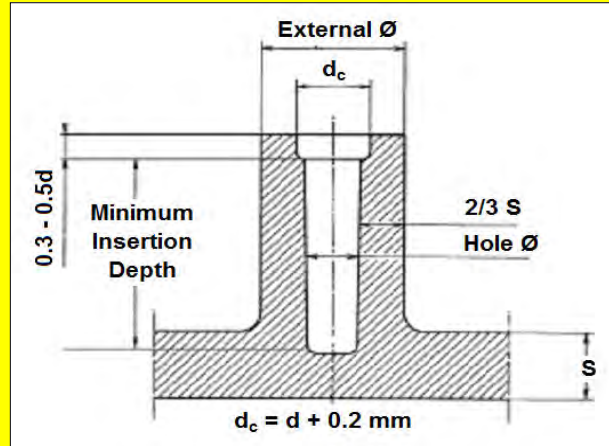


# BOSS DESIGN RECOMMENDATIONS FOR PT<sup>®</sup> SCREWS

Through a series of laboratory tests and field service feedback, some general recommendations can be made. For specific application concerns, contact Maryland Metrics.



The use of a counterbore, as shown is crucial to achieving a favorable distribution of stresses on the boss edges.

Material	Hole Ø	External Ø	Minimum Insertion depth
ABS (Acrylonitrile-Butadiene-Styrene)	0.80 x d	2.00 x d	2.00 x d
ABS/PC Blend	0.80 x d	2.00 x d	2.00 x d
ASA (Acrylic-Styrene-Acrylonitrile)	0.78 x d	2.00 x d	2.00 x d
PA 4.6 (Nylon 4/6)	0.73 x d	1.85 x d	1.80 x d
PA 4.6 – GF 30 (Nylon 4/6-30% Glass Filled)	0.78 x d	1.85 x d	1.80 x d
PA 6 (Nylon 6)	0.75 x d	1.85 x d	1.70 x d
PA 6 – GF 30 (Nylon 6-30% Glass Filled)	0.80 x d	2.00 x d	1.90 x d
PA 6.6 (Nylon 6/6)	0.75 x d	1.85 x d	1.70 x d
PA 6.6 – GF 30 (Nylon 6/6-30% Glass Filled)	0.82 x d	2.00 x d	1.80 x d
PBT (Polybutylene-Terephthalate)	0.75 x d	1.85 x d	1.70 x d
PBT – GF 30 (Polybutylene-Terephthalate-30% Glass Filled)	0.80 x d	1.80 x d	1.70 x d
PC* (Polycarbonate)	0.85 x d	2.50 x d	2.20 x d*
PC – GF* (Polycarbonate-30% Glass Filled)	0.85 x d	2.20 x d	2.00 x d*
PE-LD (Polyethylene-Low Density)	0.70 x d	2.00 x d	2.00 x d
PE-HD (Polyethylene-High Density)	0.75 x d	1.80 x d	1.80 x d
PET (Polyethylene-Terephthalate)	0.75 x d	1.85 x d	1.70 x d
PET – GF 30 (Polyethylene-Terephthalate-30% Glass Filled)	0.80 x d	1.80 x d	1.70 x d
POM	0.75 x d	1.95 x d	2.00 x d
PP (Polypropylene)	0.70 x d	2.00 x d	2.00 x d
PP – GF 30 (Polypropylene-30% Glass Filled)	0.72 x d	2.00 x d	2.00 x d
PP – TF 20 (Polypropylene-20% Talc Filled)	0.72 x d	2.00 x d	2.00 x d
PPO* (Polypropylene-Oxide)	0.85 x d	2.50 x d	2.20 x d
PS (Polystyrene)	0.80 x d	2.00 x d	2.00 x d
PVC (hard)(Polyvinyl-Chloride)	0.80 x d	2.00 x d	2.00 x d
PEEK	0.85 x d	2.00 x d	2.00 x d
SAN (Styrene-Acrylonitrile)	0.77 x d	2.00 x d	1.90 x d

For Additional Materials Contact Maryland Metrics

\*Where materials are known to be sensitive to environmental stress cracking, ageing tests should be carried out, as recommended by the material manufacturer.

This information is provided and intended to be used only as a guideline, actual application conditions may vary.

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