

# Fully Threaded Bolts

Peers have been using fully threaded bolts for several years, they have SCI approval and have been a great success. There is no difference in design strength, they help simplify erection of structures and have cost benefits too.



## Key Points:-

1. M12 x 35lg can replace M12 x 20lg , 25lg, 30lg and 35lg XOX bolts.
2. M16 x 45lg can replace 25, 30, 35, 40 & 45lg XOX bolts.
3. M20 x 60lg can replace 35, 40, 45, 50 , 55 & 60 long XOX bolts.
4. Standard grade 8.8 bolts are used. Never mix grade 4.6 with 8.8 as the implications of erecting the wrong grade bolt can be catastrophic!.
5. 3 standard grade 8.8 sets can replace 30 No. XOX grade 4.6 & 8.8 bolts.
6. Complex bolt location lists are not required – save engineering time.
7. Purchasing more of the same type = buying power!
8. Only design reduction is the shear area but standard shear values are calculated on the threaded area so there is no loss of bolt strength.
9. M20 x 80 long sets can prove useful when using larger sections.
10. Less types of bolts means quicker erection and less time spent on site.
11. Time saved on site = less risk of accidents.

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