

Customer / Supplier: Buildex - New Product Development Dept.**Report No:** ELTR 1520**Address:** 600 South Rd Moorabbin Vic 3189**Date:** Tuesday, June 29, 2010**Date Received:** Tuesday, June 29, 2010**Description:** 14-10 x 75 Hex Washer T17**Examination:**

- **Mechanical testing:**

Test pullout values into Benex Block (Test as per ITW method QCM 020)

- **Dimensions:**

Measure the major, minor (root) thread diameter).

Tested By: J.Mallet**Results:** For 14-10 T17 thread dimensions refer table 1 and pullout data refer table 2 and figure 1.

Table 1 14-10 T17 Thread and Point Dimensions			
Description	Thread Pitch	Major Dia.	Minor Dia.
14-10 Coarse Thd.	2.54 mm	6.35 mm	4.65 mm

Table 1 Screw Dimensions

Table 2 14-10 x 75 Hex Washer T17 Benex Block Screw Pullout Data Newton				
Sample	Benex Block Position A Rough Side	Benex Block Position A Smooth Side	Benex Block Position B Rough Side	Benex Block Position B Smooth Side
1	722.0	1385	795	1443
2	685.0	1468	847	1732
3	865.0	1657	949	1603
4	966.0	1615	718	1496
5	722.0	1555		1746
6	675.0			1658
7	890.0			
8	717.0			
9	684.0			
10	700.0			
Average	762.6	1536.0	827.3	1613.0
Std Dev	104.0	110.3	96.9	123.7

Table 2 Pullout Values

The results given are from laboratory conditions and appropriate safety factors should be applied for design purposes. The obtained results relate only to the items tested and this report shall not be reproduced except in full, without written approval of the laboratory.

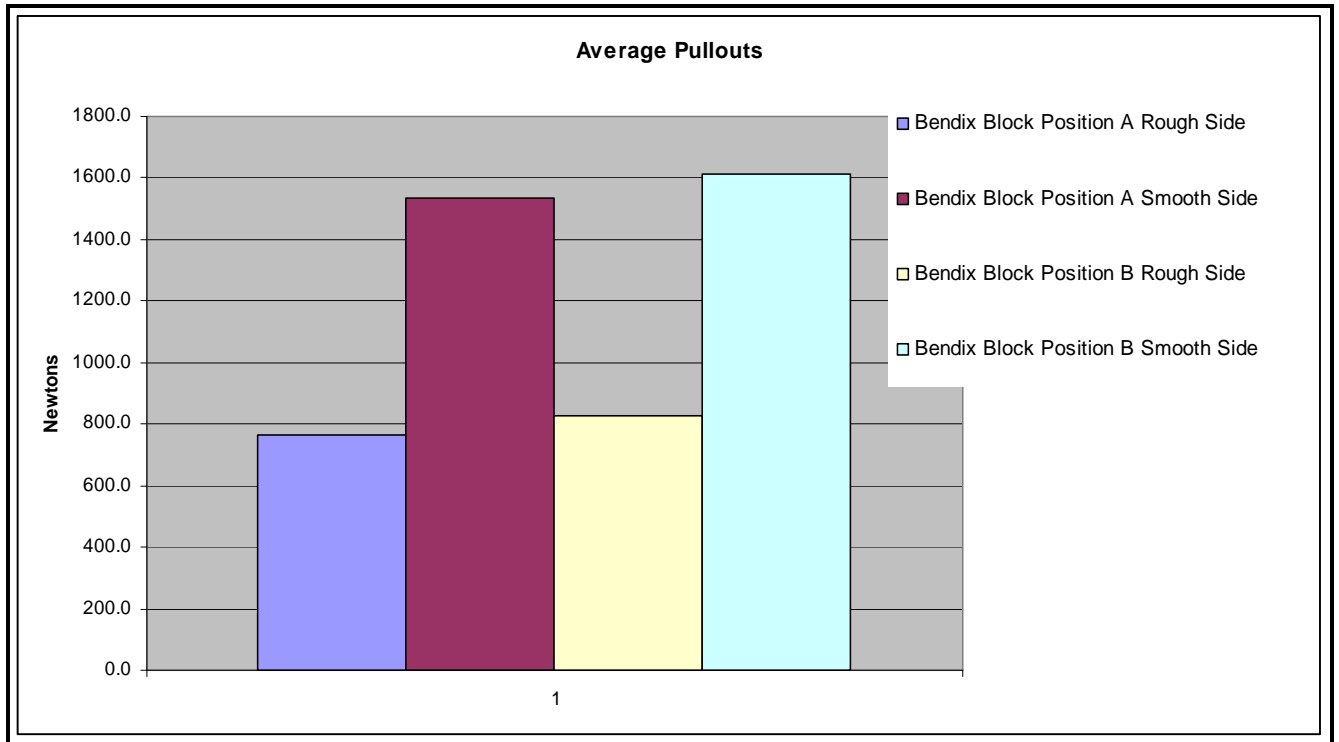


Figure 1 Graph of Average Pullouts

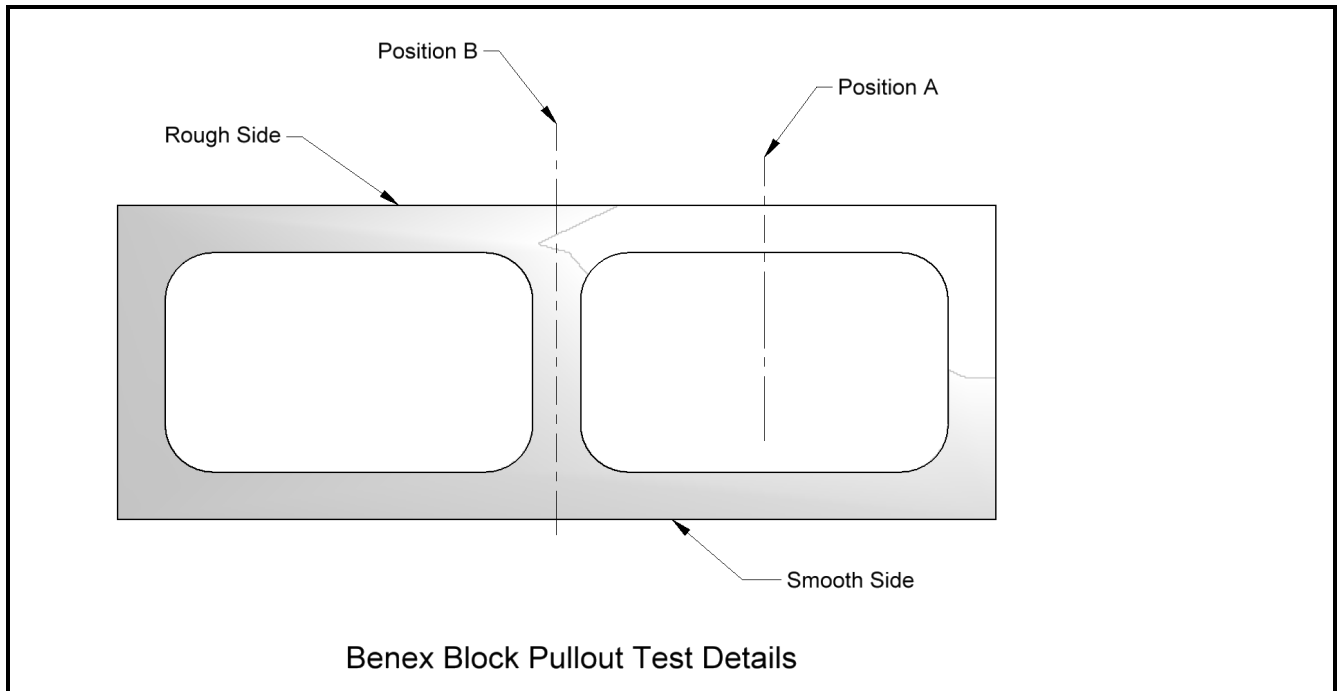


Figure 2 Pullout Position on Block

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Comments:

- For the Pullout Values refer table 2 for data and the figure 1.

The pullout values obtained when installing the screw on the “rough” side of the block vs. the “smooth side of the block were approximately half.

In position A approximately 3 mm of the point was visible when the screw was embedded to full depth.

In position B the screw was embedded to full thread depth, nominally 50mm.

Only one block was used to conduct the tests.

Authorized By: John Mallet

Date Tuesday, June 29, 2010

Title: New Product Development Engineer