

GDS Instruments Ltd. - Demo Report

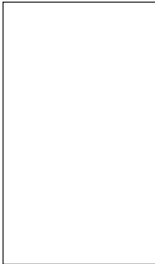


Determination of Shear Strength by Direct Shear BS 1377 : Part 7 : 1990

| | Specimen 1 | Specimen 2 | Specimen 3 |
|--|------------|------------|------------|
| Specimen Details | | | |
| Job Ref. | Ref 1 | | |
| Job Location | Loc 1 | | |
| Borehole | Bh 1 | Bh 1 | Bh 1 |
| Sample No. | GDS1 | GDS1 | GDS1 |
| Depth m | 5.5 | 5.5 | 5.5 |
| Date | 23/05/2005 | 23/05/2005 | 23/05/2005 |

| |
|--------------------------------|
| Description of Specimen |
| CLAY |

| Initial Specimen Conditions | | | | |
|------------------------------------|--------------------|---------|---------|---------|
| Height | mm | 20.00 | 20.00 | 20.00 |
| Length | mm | 50.00 | 50.00 | 50.00 |
| Area | mm ² | 2500.00 | 2500.00 | 2500.00 |
| Volume | cm ³ | 50.00 | 50.00 | 50.00 |
| Mass | g | 100.00 | 100.00 | 100.00 |
| Dry Mass | g | 80.00 | 80.00 | 80.00 |
| Density | Mg/m ³ | 2.00 | 2.00 | 2.00 |
| Dry Density | Mg/m ³ | 1.60 | 1.60 | 1.60 |
| Moisture Content | % | 25.00 | 25.00 | 25.00 |
| Degree of Saturation | % | 58.82 | 58.82 | 58.82 |
| Specific Gravity | kN/m ³ | 5.00 | 5.00 | 5.00 |
| | (assumed/measured) | assumed | assumed | assumed |

| Final Specimen Conditions | | | | |
|----------------------------------|-------------------|-------|-------|-------|
| Moisture Content | % | 25.64 | 25.64 | 25.64 |
| Density | Mg/m ³ | 1.96 | 1.96 | 1.96 |
| Dry Density | Mg/m ³ | 1.56 | 1.56 | 1.56 |

| Sketch of Failure of the Specimen | | | |
|---|--|---|--|
|  |  |  | |
| Specimen 1 | Specimen 2 | Specimen 3 | |

Date: _____
 Checked by: _____
 Approved by: _____
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 10/10/2006
 Filename: _____
 Date: _____

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| Specimen Details | Specimen 1 | Specimen 2 | Specimen 3 |
|--|------------|------------|------------|
| Job Ref. | Ref 1 | | |
| Borehole | Bh 1 | Bh 1 | Bh 1 |
| Sample No. | GDS1 | GDS1 | GDS1 |
| Depth m | 5.5 | 5.5 | 5.5 |
| Date | 23/05/2005 | 23/05/2005 | 23/05/2005 |

| Test Setup | | | |
|----------------|------------|------------|------------|
| Date started | 25/05/2005 | 25/05/2005 | 25/05/2005 |
| Date Finished | 26/05/2005 | 26/05/2005 | 26/05/2005 |
| Test Clause | 7.5.1 | 7.5.1 | 7.5.1 |
| Specimen Type | wet | wet | wet |
| Machine Number | M1 | M1 | M1 |

| Consolidation | | | |
|---|-------------|-------------|-------------|
| Seating Settlement mm | 0.00 | 0.00 | 0.00 |
| t100 value min | 6.985482107 | 6.952414782 | 7.085154789 |
| Min. Time to Failure min | 88.72 | 88.30 | 89.98 |
| Estimated Failure Disp. mm | 10.00 | 10.00 | 10.00 |
| Max Shearing Velocity mm/min | 0.11 | 0.11 | 0.11 |
| Voids Ratio at End | 0.56 | 0.56 | 0.56 |

| Shearing | | | |
|--|----------|----------|----------|
| Normal Stress kPa | 800.00 | 1600.00 | 2400.00 |
| Rate of Displacement mm/min | 0.10 | 0.10 | 0.10 |
| Peak Shear Stress kPa | 200.00 | 400.00 | 600.00 |
| Displacement - Peak mm | 0.00 | 0.00 | 0.00 |
| Residual Shear Stress kPa | 200.00 | 400.00 | 600.00 |
| Number of travels | 0.18 | 0.18 | 0.18 |
| Displacement - Resid. mm | 2.00E+00 | 2.00E+00 | 2.00E+00 |
| Peak c' kPa | 0.00 | 0.00 | 0.00 |
| Peak Phi' deg | 14.48 | 14.48 | 14.48 |
| Residual c' kPa | 0.00000 | 0.00000 | 0.00000 |
| Residual Phi' deg | 14.47751 | 14.47751 | 14.47751 |

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Specimen 1

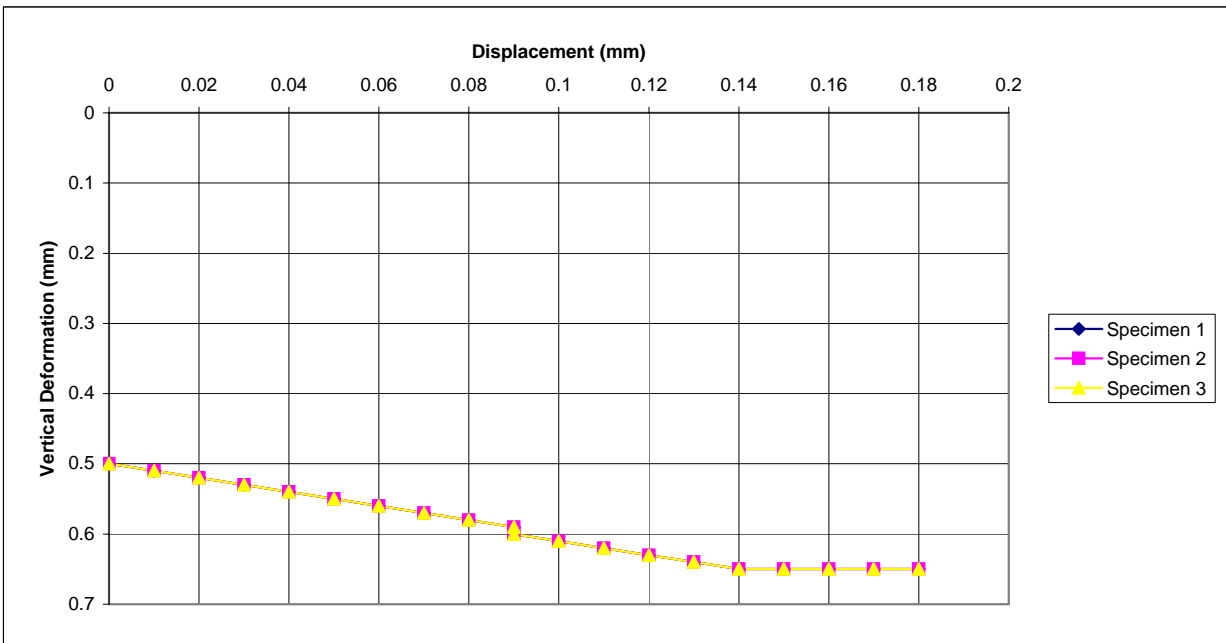
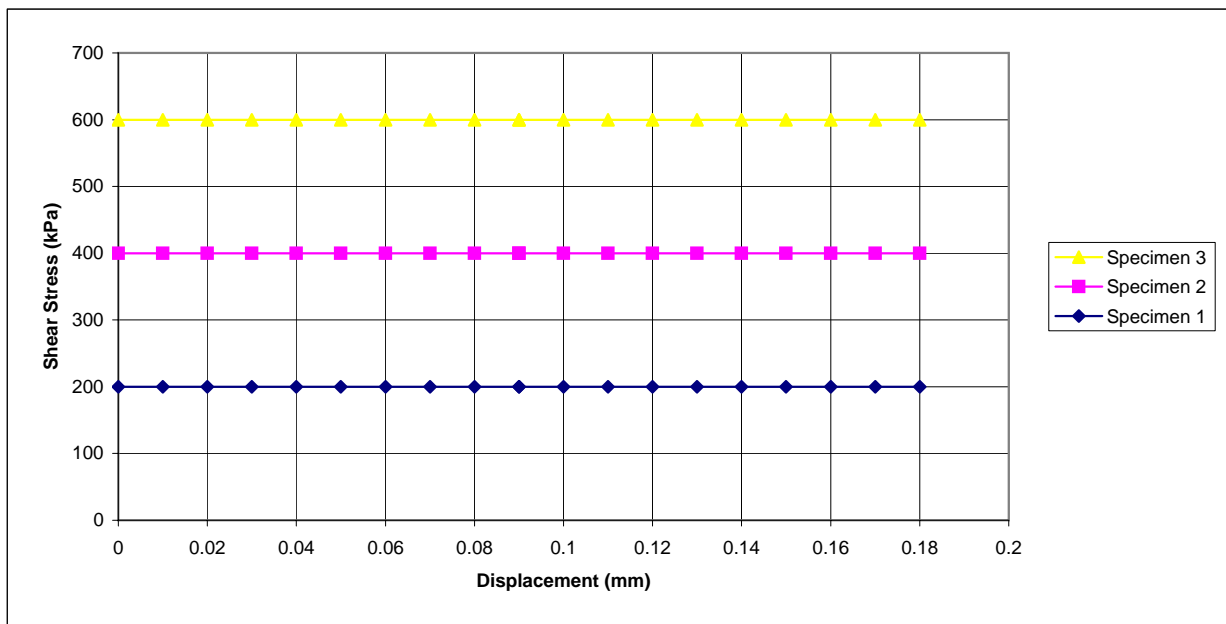
Specimen 2

Specimen 3

Specimen Details

| | Specimen 1 | Specimen 2 | Specimen 3 |
|------------|------------|------------|------------|
| Job Ref. | Ref 1 | | |
| Borehole | Bh 1 | Bh 1 | Bh 1 |
| Sample No. | GDS1 | GDS1 | GDS1 |
| Depth | 5.5 | 5.5 | 5.5 |
| Date | 23/05/2005 | 23/05/2005 | 23/05/2005 |

Shearing Stages



Date:
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Specimen 1

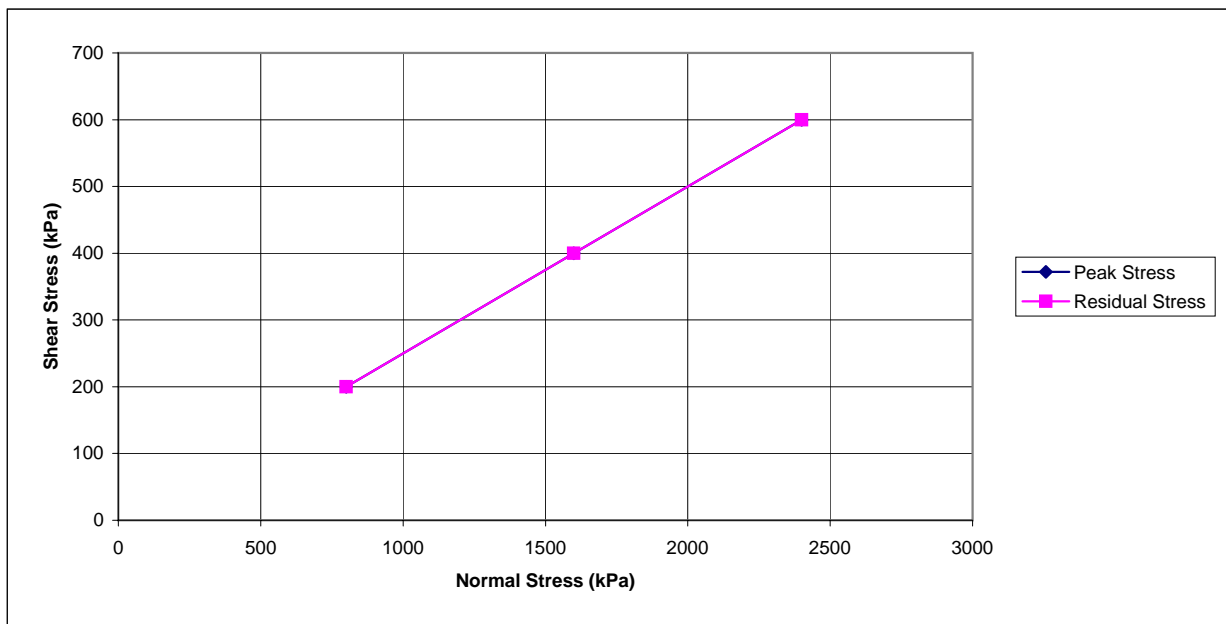
Specimen 2

Specimen 3

Specimen Details

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|------------|------------|------------|------------|
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| Sample No. | GDS1 | GDS1 | GDS1 |
| Depth | 5.5 | 5.5 | 5.5 |
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Shearing Stage



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