

シボレックス構法 データ集 No.1
SDR縦壁構法 面内変形性能試験(動的加力)

| 試験機関 | (財)建材試験センター | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------|--|--------|------------|--------|---|-------|------|--|-------|--------|---|--------|------|--|-------|--------|---|--------|------|--|------|--------|---|--------|------|--|---|--------|---|--------|---|--|---|--------|---|--------|---|--|---|-------|---|-------|---|--|---|-------|---|-------|---|
| 試験実施日 | 平成13年10月21日 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 試験目的 | SDR縦壁構法(シボレックス乾式ロッキング構法)にて取付けたシボレックスパネルの面内変形追従性能を確認する。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 試験体 | 試験体取付け鋼製フレームにSDR構法で、シボレックスパネルを取付け、試験体とした。 パネル 上壁(厚100mm×幅600mm×長700mm) 下壁(厚100mm×幅600mm×長2995mm) パネル目地間 ポリウレタン系シーリング | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 試験方法 | JIS A 1414「建築用構成材(パネル)およびその構造部分の性能試験方法」の6.19(組立てられた非耐力用パネルの面内せん断曲げによる変形試験)に基いて、大形面内せん断試験装置を使用した。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 加力サイクル | <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 15%;">サイクル</th> <th colspan="5">層間変形角(rad)</th> </tr> </thead> <tbody> <tr> <td></td> <td>0</td> <td>+1/300</td> <td>0</td> <td>-1/300</td> <td>0</td> </tr> <tr> <td></td> <td>0</td> <td>+1/200</td> <td>0</td> <td>-1/200</td> <td>0</td> </tr> <tr> <td></td> <td>0</td> <td>+1/150</td> <td>0</td> <td>-1/150</td> <td>0</td> </tr> <tr> <td></td> <td>0</td> <td>+1/120</td> <td>0</td> <td>-1/120</td> <td>0</td> </tr> <tr> <td></td> <td>0</td> <td>+1/100</td> <td>0</td> <td>-1/100</td> <td>0</td> </tr> <tr> <td></td> <td>0</td> <td>+1/75</td> <td>0</td> <td>-1/75</td> <td>0</td> </tr> <tr> <td></td> <td>0</td> <td>+1/60</td> <td>0</td> <td>-1/60</td> <td>0</td> </tr> </tbody> </table> | サイクル | 層間変形角(rad) | | | | | | 0 | +1/300 | 0 | -1/300 | 0 | | 0 | +1/200 | 0 | -1/200 | 0 | | 0 | +1/150 | 0 | -1/150 | 0 | | 0 | +1/120 | 0 | -1/120 | 0 | | 0 | +1/100 | 0 | -1/100 | 0 | | 0 | +1/75 | 0 | -1/75 | 0 | | 0 | +1/60 | 0 | -1/60 | 0 |
| サイクル | 層間変形角(rad) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | +1/300 | 0 | -1/300 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | +1/200 | 0 | -1/200 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | +1/150 | 0 | -1/150 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | +1/120 | 0 | -1/120 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | +1/100 | 0 | -1/100 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | +1/75 | 0 | -1/75 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | +1/60 | 0 | -1/60 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 試験体 | <p style="text-align: center;">全体立面図</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 試験結果 | <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 15%;">サイクル</th> <th style="width: 35%;">層間変形角(rad)</th> <th style="width: 50%;">観察状況</th> </tr> </thead> <tbody> <tr> <td></td> <td>1/300</td> <td>異常なし</td> </tr> <tr> <td></td> <td>1/200</td> <td>異常なし</td> </tr> <tr> <td></td> <td>1/150</td> <td>異常なし</td> </tr> <tr> <td></td> <td>1/120</td> <td>異常なし</td> </tr> <tr> <td></td> <td>1/100</td> <td>異常なし</td> </tr> <tr> <td></td> <td>1/75</td> <td>異常なし</td> </tr> <tr> <td></td> <td>1/60</td> <td>異常なし</td> </tr> </tbody> </table> | サイクル | 層間変形角(rad) | 観察状況 | | 1/300 | 異常なし | | 1/200 | 異常なし | | 1/150 | 異常なし | | 1/120 | 異常なし | | 1/100 | 異常なし | | 1/75 | 異常なし | | 1/60 | 異常なし | | | | | | | | | | | | | | | | | | | | | | | | |
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| | 1/300 | 異常なし | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1/200 | 異常なし | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1/150 | 異常なし | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1/120 | 異常なし | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1/100 | 異常なし | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1/75 | 異常なし | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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