

BPB Bracing System BPB1S 2400mm Specification Sheet

Bracing

Bracing ratings for BPB Standard Plasterboard have been obtained from product tested in accordance with NZS 3604 P21 bracing test procedures. The bracing values stated in the below table apply to both timber and concrete floor constructions.

BPB Bracing System Specifications

| | |
|--|---|
| BPB Bracing System Reference | BPB1S 2400 |
| Bracing Units/Meter Wind | 75BU/m |
| Bracing Units/Meter Earthquake | 65 BU/m |
| BPB Lining Requirement | 10mm BPB Standard Plasterboard on one side fixed vertically or horizontally |
| Minimum Permitted Wall Length (mm) | 2400mm |
| Maximum Permitted Wall length (mm) | 6000mm |
| Maximum Permitted Wall Height (mm) | 4800mm |
| Hold Down Anchors | Not required |
| Straps or BPB Bracing Anchor | Not required |
| Diagonal Brace | Required |
| BPB Plasterboard types permitted with this system. | <ul style="list-style-type: none"> • 10mm BPB Standard • 13mm BPB Standard • 10mm BPB Aquastop • 13mm BPB Aquastop • 10mm BPB Firestop • 13mm BPB Firestop • 16mm BPB Firestop • 10mm BPB Braceboard • 13mm BPB Duraline |
| Framing | Framing to be MSG8 kiln dried timber. Minimum framing sizes for internal and external walls to be in accordance with NZS 3604 Section 8 |
| Fixings | Use Drywall screws (32mm x 6g) or galvanised flat head nails (30mm x 2.5mm) for fixing BPB Plasterboard to the framing. |
| Perimeter Fixing Centres | 150mm |
| Corner Fixing Centres | 50mm |
| Adhesive | The use of adhesive is permitted to the intermediate studs only and is to be placed at 300mm centres. Please note that fixings are not to pass through adhesive as this can cause protrusion of the fixing. (This is known as popping). |
| Jointing | For sheets which are installed vertically or horizontally all joints are to be paper taped and stopped in accordance with AS/NZS 2589.1 |

BPB Bracing System BPB1S 2400mm. Total Values for Common Wall Lengths & Heights

To calculate the total bracing demand and achieved values for wind and earthquake please use the BPB Bracing Calculator

| Total Bracing Units | Wall Height | | | | | | | | | | | | |
|---------------------|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | 2400 | | 2700 | | 3000 | | 3600 | | 4200 | | 4800 | | |
| | Wind | Earth | Wind | Earth | Wind | Earth | Wind | Earth | Wind | Earth | Wind | Earth | |
| Wall Length | 2400 | 180 | 156 | 160 | 138 | 144 | 124 | 120 | 104 | 102 | 89 | 90 | 78 |
| | 2700 | 202 | 175 | 180 | 156 | 162 | 140 | 135 | 117 | 115 | 100 | 101 | 87 |
| | 3000 | 225 | 195 | 200 | 173 | 180 | 156 | 150 | 130 | 128 | 111 | 112 | 97 |
| | 3300 | 247 | 214 | 220 | 190 | 198 | 171 | 165 | 143 | 141 | 122 | 123 | 107 |
| | 3600 | 270 | 234 | 240 | 208 | 216 | 187 | 180 | 156 | 154 | 133 | 135 | 117 |
| | 3900 | 292 | 253 | 260 | 225 | 234 | 202 | 195 | 169 | 167 | 144 | 146 | 126 |
| | 4200 | 315 | 273 | 280 | 242 | 252 | 218 | 210 | 182 | 180 | 156 | 157 | 136 |
| | 4800 | 360 | 312 | 320 | 277 | 288 | 249 | 240 | 208 | 205 | 178 | 180 | 156 |
| | 5000 | 375 | 325 | 333 | 288 | 300 | 260 | 250 | 216 | 214 | 185 | 187 | 162 |
| | 5400 | 405 | 351 | 360 | 312 | 324 | 280 | 270 | 234 | 231 | 200 | 202 | 175 |
| 6000 | 450 | 390 | 400 | 346 | 360 | 312 | 300 | 260 | 257 | 222 | 225 | 195 | |

For further information on BPB Bracing Systems please refer to the BPB Bracing Manual or contact BPB
Ph: 0800 272 262. Web Site www.bpb.co.nz

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BPB1S 2400 Construction Illustration

