

## Product Specification – QIKBUILD Conduit Spacer



**QIKBUILD**

MADE IN



### *Product Description and Use*

The Spacer Company QIKBUILD Conduit Spacer forms a cost-effective means to ensure conduit can be laid within a trench with the confidence that consistent, adequate separation is maintained.

The QIKBUILD Spacer's sturdy design allows it to maintain the conduit position while the trench or duct is backfilled.

The currently released QIKBUILD Spacers are available to suit 100mm and 150mm Conduits.

### *Features*

- Manufactured from **Recycled Materials**
- Simple **Clip together** installation
- Suits Conduit **Size 100mm,125 and 150mm**
- **Spacer Blocks** available to increase conduit separation



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**Material**

All Conduit Spacer Components are Injection Moulded in Australia using 100% Recycled Polypropylene

**QIKBUILD CONDUIT SPACERS**



**QIKBUILD SPACER BLOCKS**



## **Manufacture**

The Spacer Co range of products are made in Brisbane Australia by Co-Packers. Co-Packers maintains a quality system currently certified to meet ISO9001:2008



**SCI QUAL**  
INTERNATIONAL

## **Product Codes**

### **QIKBUILD CONDUIT SPACERS**

| <b>Product Name</b>   | <b>Product Code</b> | <b>Conduit Separation</b> |
|-----------------------|---------------------|---------------------------|
| 100mm QIKBUILD Spacer | QB100-50            | 50mm                      |
| 125mm QIKBUILD Spacer | QB125-50            | 50mm                      |
| 150mm QIKBUILD Spacer | QB150-70            | 70mm                      |
| 150mm QIKBUILD Spacer | QB150-75            | 75mm                      |

### **QIKBUILD SPACER BLOCKS**

| <b>Product Name</b>                  | <b>Product Code</b> | <b>Conduit Separation</b> | <b>Suits</b>            |
|--------------------------------------|---------------------|---------------------------|-------------------------|
| 50mm BASE suits<br>QB100/QB125       | QBS100-50B          | 50mm                      | QB100-50/QB125-50       |
| 50mm SIDE suits<br>QB100/QB125       | QBS100-50S          | 50mm                      | QB100-50/QB125-50       |
| 50mm SIDE suits<br>QB150-70/QB150-75 | QBS150-50S          | 50mm                      | QB150-75/QB150-75       |
| 50mm BASE suits<br>QB150-75          | QBS150-50B          | 50mm                      | QB150-75 (not QB150-70) |

*Refer to the latest Spacer Company Price list for pack sizes*

## **Properties**

In order to obtain information on various properties of the Spacer we conducted load tests using our calibrated load test apparatus. Vertical loads are applied to a 100mm QIKBUILD Conduit Spacer, and deflection is recorded after a period of 60 seconds.



## **UV Stability**

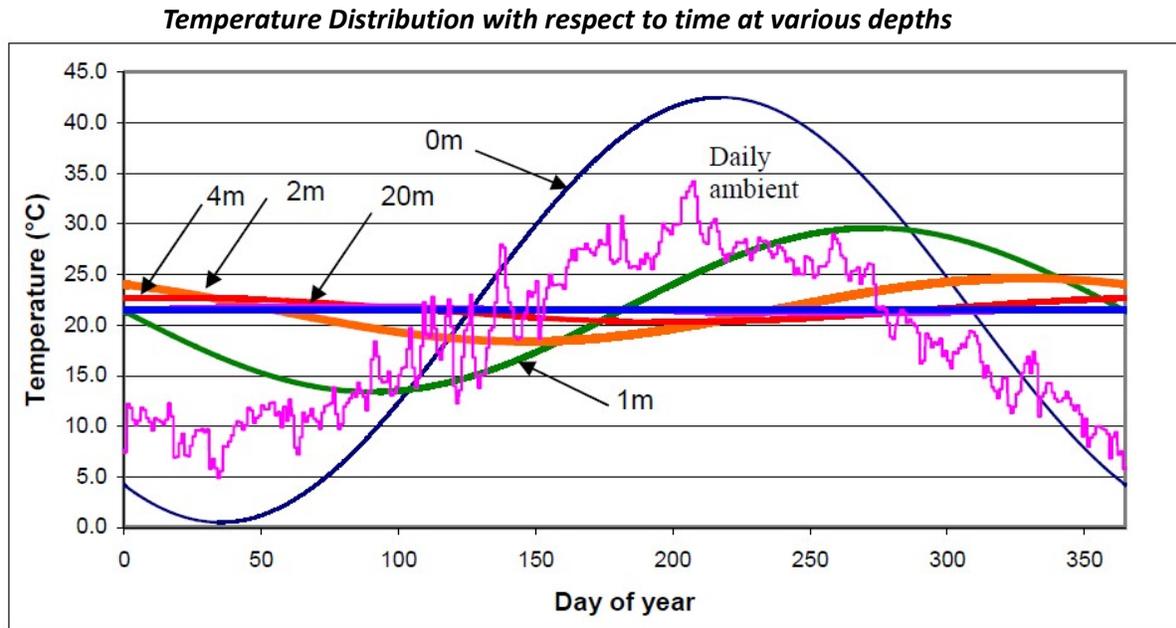
We recommend that Conduit Spacers are stored within a covered warehouse. In the event that Conduit Spacers are stored outdoors for short periods it has been shown that the effects of UV light are negligible.

The following tests results were achieved after using a 50kg point load at a component temperature of 25 deg C.

| <b>Duration Outdoors</b> | <b>Deflection</b> |
|--------------------------|-------------------|
| 1 day                    | 1.01mm            |
| 4 weeks                  | 1.00mm            |
| 8 weeks                  | 1.05mm            |
| 16 weeks                 | 1.03mm            |

### Softening Point

At depths of 1.0 to 2.0 metres below ground it can be shown that temperatures can vary from 15 to 30 deg C. Load test results show minimal deflection when Conduit Spacers are point loaded for a period of 60 seconds at 25 and 35 deg C.



Source : Florides, Georgios & Kalogirou, Soteris. (2019). Annual ground temperature measurements at various depths.

The following tests results were achieved after using a 50kg & 60kg point load at component temperatures of 25 and 35 deg C

| LOAD TEST | TEMPERATURE | DEFLECTION |
|-----------|-------------|------------|
| 50kg      | 25 deg C    | 1.01mm     |
| 50kg      | 35 deg C    | 1.51mm     |
| 60kg      | 25 deg C    | 1.34mm     |
| 60kg      | 35 deg C    | 2.10mm     |

*NOTE: a 50kg point load one spacer is equivalent to 5900kg per square metre*

## ***Assembly***

Assembly of the QIKBUILD Spacer is quick and simple.



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**Step 1 - Lock Ends together to create strips**



**Step 2 - Connect Strips along their long edge**

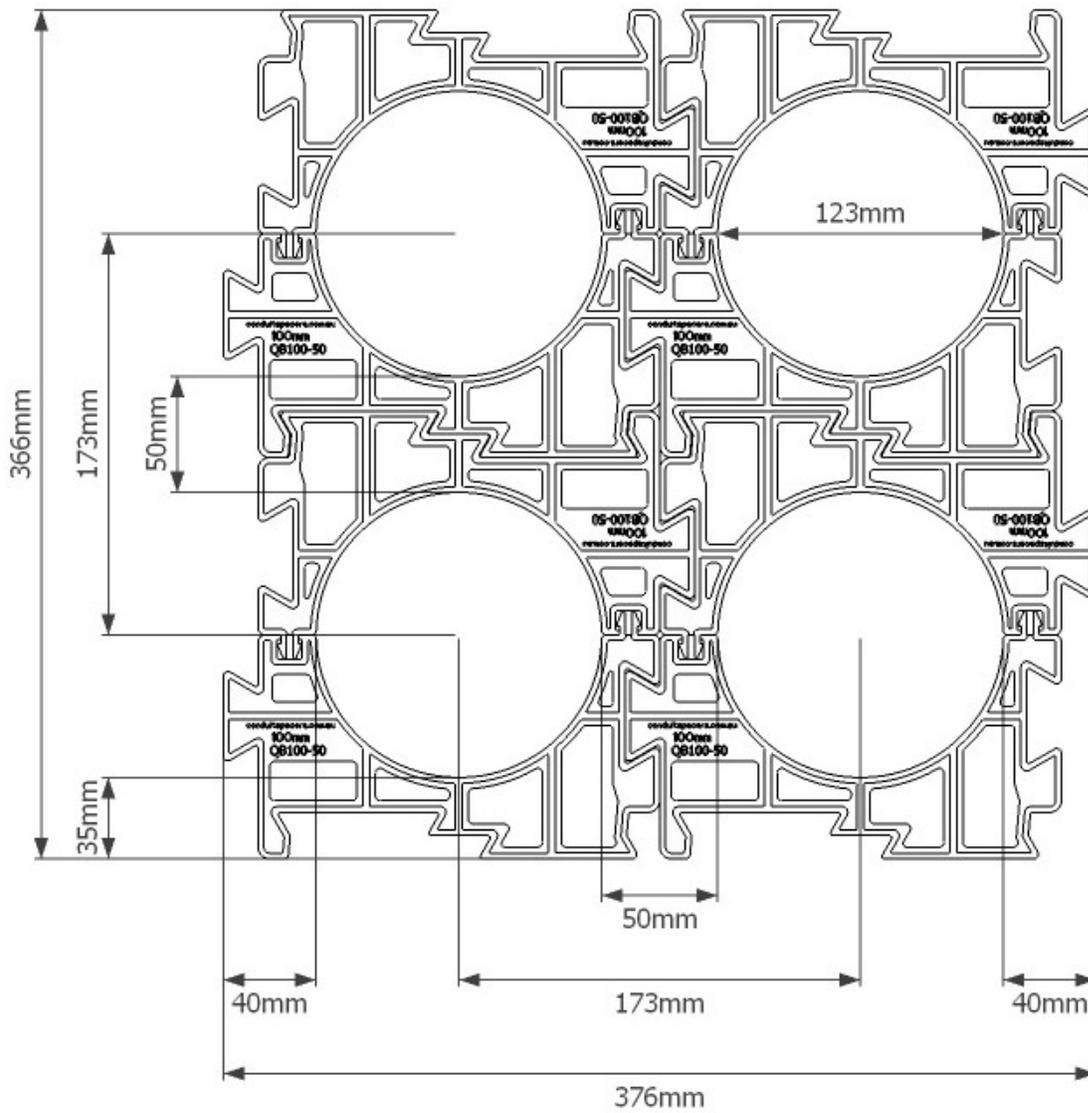
**Step 3 - Assemble layers**



## Product Dimensions

Assembled sample arrangements with dimensions is shown below. CAD files can be downloaded at [www.conduitspacers.com.au](http://www.conduitspacers.com.au)

### 100mm Conduit arrangement using QB100-50



# 150mm Conduit arrangement using QB150-70

