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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **AS1597.1-2010 & AS1597.2-2013, Clause 2.9.2 - Size Dimensions (Internal Measurements)** Internal span and heights measurements of a culvert unit and span of a link or base slab are taken 200mm from each end and at the middle length of the culvert. The size dimension shall be taken from the mean of the 3 values. | | | | | | | | |
| Internal span | | | | | | | | |
| Value 1: | | | Value 2: | | | Value 3: | | |
| **Mean** Internal Span = | | | | | | | | |
| Within Tolerance? **YES**  or  **NO** (See Table) | | | | | | | | |
| Internal Height | | | | | | | | |
| Value 1: | | | Value 2: | | | Value 3: | | |
| **Mean** Internal Height = | | | | | | Value 4: | | |
| Within Tolerance? **YES**  or **NO** (See Table) | | | | | | | | |
| **Deck - AS1597.1-2010 & AS1597.2-2013, Clause 2.9.3 - Thickness** The thickness of the culvert crown unit, link or base slab shall be determined by taking measurements at 300mm in from both sides and the middle at either ends of the product. The thickness shall be taken as the mean of the six values. | | | | | | | | |
| Deck Thickness | | | | | | | | |
| Value 1: | | | Value 2: | | | Value 3: | | |
| Value 4: | | | Value 5: | | | Value 6: | | |
| **Mean** Thickness = | | | | | | | | |
| Within Tolerance? **YES**  or **NO** (See Table) | | | | | | | | |
| **Top of Leg - AS1597.1-2010 & AS1597.2-2013, Clause 2.9.3 - Thickness** The thickness of the culvert unit legs shall be measured at the junction of the haunch and the top of the legs, and 300mm from end of the unit. The leg thickness at each horizontal plane shall be taken as the mean of the four values. | | | | | | | | |
| Top of Leg Thickness | | | | | | | | |
| Value 1: | Value 2: | | | Value 3: | | | Value 4: | |
| **Mean** Thickness = | | | | | | | | |
| Within Tolerance? **YES**  or **NO** (See Table) | | | | | | | | |
| **Bottom of Leg - AS1597.1-2010 & AS1597.2-2013, Clause 2.9.3 - Thickness** The thickness of the culvert unit legs shall be measured 50mm up from the base of the legs, and 300mm from end of the unit. The leg thickness at each horizontal plane shall be taken as the mean of the four values. | | | | | | | | |
| Bottom of Leg Thickness | | | | | | | | |
| Value 1: | | Value 2: | | | Value 3: | | | Value 4: |
| **Mean** Thickness = | | | | | | | | |
| Within Tolerance? **YES**  or **NO** (See Table) | | | | | | | | |
| **AS1597.1-2010 & AS1597.2-2013, Clause 2.9.5 - Length** The length of the precast unit shall be measured at the base of each leg and across the middle of the span. The length dimension shall be determined as the mean of the 3 values. | | | | | | | | |
| Length | | | | | | | | |
| Value 1: | | | Value 2: | | | Value 3: | | |
| **Mean** Length = | | | | | | | | |
| Within Tolerance? **YES**  or **NO** (See Table) | | | | | | | | |
| Tolerance Check by: | | | | | | | | |

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| --- | --- | --- |
| **\*FOR 1500MM SPAN AND LARGER ONLY** | | |
| **\*AS1597.2-2013, Clause 2.10.3.1 – Ends** | | |
| **Ends** | | |
| The end faces of the culvert unit, link or base slab at any location shall be square within +4mm | | |
| Within Tolerance? **YES**  or **NO** | | |
| **\*AS1597.2-2013, Clause 2.10.3.2 – Vertically** | | |
| Vertically | | |
| The culvert unit, base or link slab shall not deviate from the vertical at any location by more than +20mm for the entire overall height of the culvert, | | |
| Within Tolerance? **YES**  or **NO** | | |
| **\*AS1597.2-2013, Clause 2.10.3.3 – Squareness** | | |
| Squareness | | |
| The plan diagonals of the culvert unit, link or base slab and the side elevation diagonals of each culvert unit leg shall not differ by more than +20mm. | | |
| Top Value 1: | Top Value 2: | Top Difference: |
| Side A Value 1: | Side A Value 2: | Side A Difference: |
| Side B Value 1: | Side B Value 2: | Side B Difference: |
| Within Tolerance? **YES**  or **NO** (See Table) | | |
| Tolerance Check by: | | |

***Regime -*** *1597.1: Greater of 150 Units or 1 Month | 1597.2: Greater of 25 Units or 1 Week*

***Reference:*** *AS/NZS 1597.1-2010 Table 2.7, AS/NZS 1597.2-2013 Table 2.7 and latest revisions of Main Roads Western Australia Drawings 0530-1470 & 1930-0666.*

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| --- | --- | --- | --- | --- |
| **Tolerance** | **AS 1597.1 Table 2.7 (mm)** | **AS 1597.2 Table 2.7 (mm)** | **MRWA 0530-1470 (mm)** | **MRWA 1930-0666 (mm)** |
| **Span** | +5, -5 | +10, -10 | *Use 1597.2* | *Use 1597.1* |
| **Height** | +5, -5 | +10, -10 | *Use 1597.2* | *Use 1597.1* |
| **Thickness** | +5, -3 | +8, -5 | *Use 1597.2* | *Use 1597.1* |
| **Length** | +10, -10 | +15, -15 | *Use 1597.2* | *Use 1597.1* |
| **Cover to Reinforcing** | +10, -5 | +10, -5 | +5, -0 | *(+10\*\*)*, -0 |

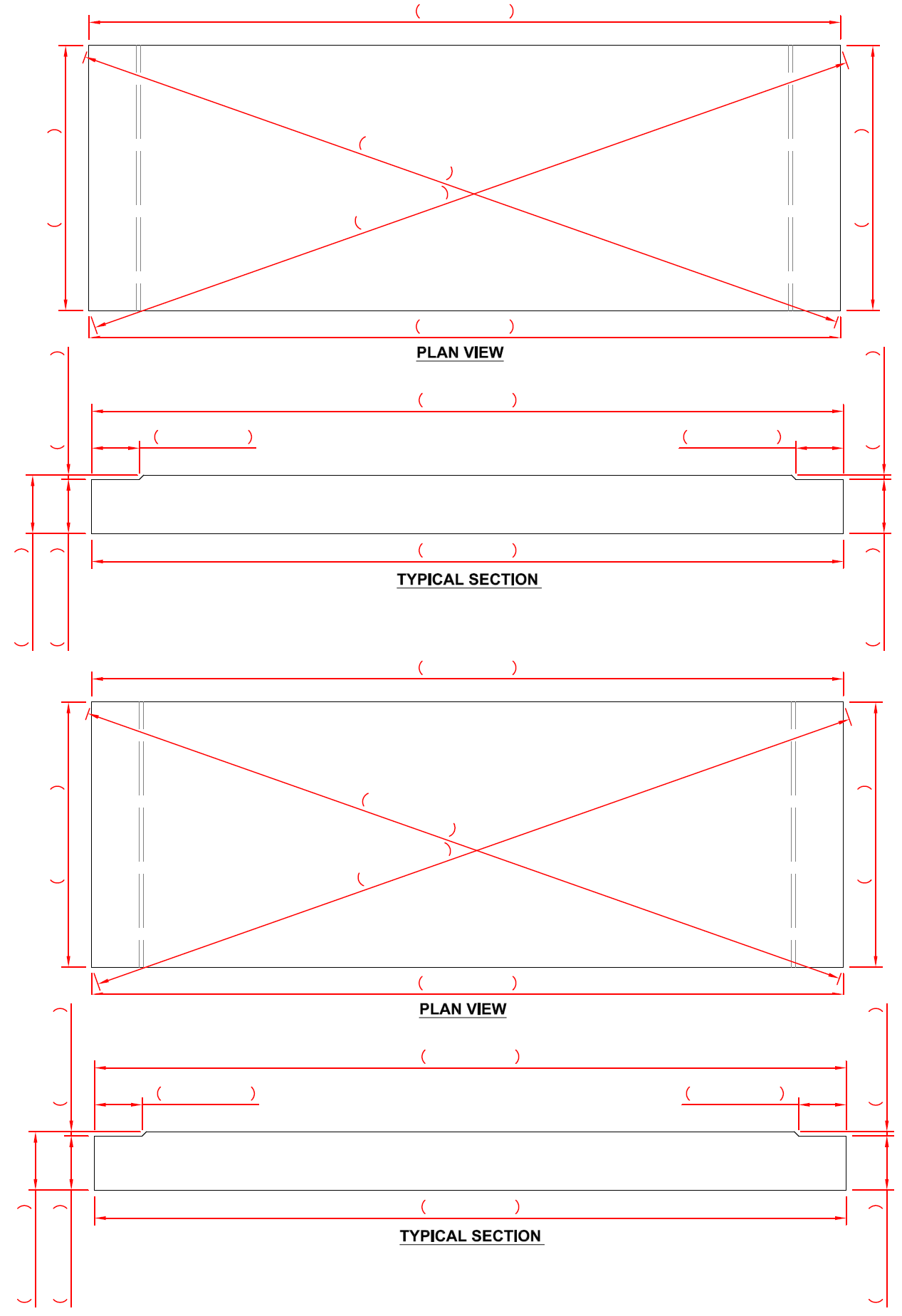
*\*\* Use AS1597.1 tolerance*

Graphical user interface

Description automatically generated***Calculation Note:***

Chart, radar chart

Description automatically generated

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