### T-Rib

#### DETAIL LIST

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>00</td>
<td>COVER SHEET</td>
</tr>
<tr>
<td>01</td>
<td>ROOF RIDGE</td>
</tr>
<tr>
<td>02</td>
<td>SAWTOOTH RIDGE</td>
</tr>
<tr>
<td>03</td>
<td>SAWTOOTH EAVE</td>
</tr>
<tr>
<td>04</td>
<td>ROOF VALLEY</td>
</tr>
<tr>
<td>05</td>
<td>ROOF - CHANGE PITCH</td>
</tr>
<tr>
<td>06</td>
<td>EAVE WITH METALLINE FASCIA</td>
</tr>
<tr>
<td>07</td>
<td>EAVE WITH INTERNAL GUTTER BRACKET</td>
</tr>
<tr>
<td>08</td>
<td>EAVE WITH SNOW STRAP</td>
</tr>
<tr>
<td>09</td>
<td>FLUSH EAVE WITH INTERNAL GUTTER BRACKET</td>
</tr>
<tr>
<td>10</td>
<td>FLUSH EAVE WITH EXTERNAL GUTTER BRACKET</td>
</tr>
<tr>
<td>11</td>
<td>BARGE WITH PROFILED CLADDING</td>
</tr>
<tr>
<td>12</td>
<td>BARGE OVERHANG</td>
</tr>
<tr>
<td>13</td>
<td>PARAPET WITH TRANSVERSE APRON</td>
</tr>
<tr>
<td>14</td>
<td>TRANSVERSE APRON</td>
</tr>
<tr>
<td>15</td>
<td>PARALLEL APRON</td>
</tr>
<tr>
<td>16</td>
<td>MAX. 85mm DIAMETER PIPE PENETRATION</td>
</tr>
<tr>
<td>17</td>
<td>OVER 85mm DIAMETER PIPE PENETRATION</td>
</tr>
<tr>
<td>18</td>
<td>3D RIDGE TO BARGE JUCTION</td>
</tr>
<tr>
<td>19</td>
<td>3D DUTCH GABLE</td>
</tr>
<tr>
<td>20</td>
<td>3D APRON</td>
</tr>
<tr>
<td>21</td>
<td>3D OVER 85mm DIAMETER PIPE PENETRATION</td>
</tr>
<tr>
<td>22</td>
<td>3D CHIMNEY PENETRATION</td>
</tr>
<tr>
<td>23</td>
<td>3D RIDGE/BARGE FLASHINGS</td>
</tr>
<tr>
<td>24</td>
<td>3D DUTCH GABLE FLASHINGS</td>
</tr>
</tbody>
</table>
PRE-FINISHED RIDGE CAP FLASHING

STOPENDS TO ROOF CLADDING

METALCRAFT T-RIB ROOFING

PRE-FINISHED SELF DRILLING/TAPPING SCREW WITH RUBBER WASHER

SOFT EDGE DRESSED OVER T-RIB RIBS

PURLIN

ROOF FRAMING

BUILDING PAPER SHOWN DASHED

- BUILDING PAPER IS THE COMMON GENERIC NAME FOR PERMEABLE ROOF AND WALL UNDERLAYS. PLEASE REFER TO NZBC E2/AS1 AND MRM CODE OF PRACTICE VERSION 2.2 /2012.

- PLEASE REFER TO MRM CODE OF PRACTICE VERSION 2.2 /2012 AS MINIMUM PITCH WILL INCREASE DEPENDING ON SHEET LENGTH.

DISCLAIMER:
All details are to be used for indicative purposes only and the designer should consult both the MRM code of practice version 2.2 /2012, E2 and all other relevant building codes.
Details of the supporting mechanisms are indicative only. Compliance of the supporting mechanisms is the responsibility of the designer. Construction detail can vary for wall cladding. The underlay is detailed as a single line for simplicity and is indicative only. Building paper type and method of installation should comply with underlay manufacturers recommendations and NZBC regulations.

SITUATION 1
1. LOW, MEDIUM, HIGH WIND ZONES
2. ROOF PITCH ≥ 10°
X MIN. 130mm (EXCLUDING ANY SOFT EDGE OR TURN-DOWN TO ROOFING)

SITUATION 2
1. VERY HIGH WIND ZONE
2. ALL ROOF PITCHES
MIN. 200mm

SITUATION 3
1. EXTRA HIGH WIND ZONE
2. ALL ROOF PITCHES
MIN. 200mm

PLEASE REFER TO E2 FOR FURTHER INFORMATION ON FLASHING COVER WIDTHS.

CATEGORY A
1. NORMAL EXPOSURE
2. ROOF PITCH >10°
X MIN. 130mm

CATEGORY B
1. EXPOSED (HIGHER RISK) & WIND LOAD EXCEEDS 1.5 kPa.
2. ROOF PITCH <10°
MIN. 200mm

PLEASE REFER TO MRM CODE OF PRACTICE VERSION 2.2/2012 FOR FURTHER INFORMATION ON FLASHING COVER WIDTHS.
**T-RIB**

**MIN. ROOF PITCH = 3°**

**SOFT EDGE DRESSED OVER T-RIB RIBS**

**STOPENDS TO ROOF CLADDING**

**METALCRAFT T-RIB ROOFING**

**PRE-FINISHED SELF DRILLING/TAPPING SCREW WITH RUBBER WASHER**

**BUILDING PAPER SHOWN DASHED**

**PURLIN**

---

**PRE-FINISHED SAWTOOTH RIDGE CAP FLASHING**

**HEMMED EDGE**

**PRE-FINISHED 8g WAFER-TEK SCREW BEDDED IN SILICONE**

**TIMBER PACKER**

**FASCIA BOARD**

**TIMBER PACKER**

**WEATHERBOARDS ON CAVITY**

**BUILDING PAPER SHOWN DASHED**

**ROOF OR WALL FRAMING**

---

**CATEGORY A**

1. NORMAL EXPOSURE
2. ROOF PITCH > 10°

**SITUATION 1**

1. LOW, MEDIUM, HIGH WIND ZONES
2. ROOF PITCH ≥ 10°

**SITUATION 2**

1. VERY HIGH WIND ZONE
2. ALL ROOF PITCHES

**SITUATION 3**

1. EXTRA HIGH WIND ZONE
2. ALL ROOF PITCHES

**CATERNOR B**

1. EXPOSED (HIGHER RISK) & WIND LOAD EXCEEDS 1.5 kPa.
2. ROOF PITCH < 10°

---

**DISCLAIMER:**

All details are to be used for indicative purposes only and the designer should consult both the MRM code of practice version 2.2/2012, E2 and all other relevant building codes. Details of the supporting mechanisms are indicative only. Compliance of the supporting mechanisms is the responsibility of the designer. Construction detail can vary for wall cladding. The underlay is detailed as a single line for simplicity and is indicative only. Building paper type and method of installation should comply with underlay manufacturer's recommendations and NZBC regulations.

---

**SAWTOOTH RIDGE**

**RESIDENTIAL ROOFING**

---

**REFERENCE:**

**RRTRI**

**DATE:**

2014

**SCALE:**

1 : 2

**SHEET:**

02 / 24
**PRE-FINISHED SAWTOOTH RIDGE CAP FLASHING**

**HEMMED EDGE**

**PRE-FINISHED 8g WAFTER-TEK SCREW BEDDED IN SILICONE**

**TIMBER FASCIA**

**ROOF FRAMING**

**SOFFIT LINING**

**STOPENDS TO ROOF CLADDING**

**SOFT EDGE DRESSED OVER T-RIB RIBS**

**METLCRAFT T-RIB ROOFING**

**PRE-FINISHED SELF DRILLING/TAPPING SCREW WITH RUBBER WASHER**

**BUILDING PAPER SHOWN DASHED**

**PURLINE**

---

**CATEGORY A**

1. NORMAL EXPOSURE  
2. ROOF PITCH >10°

- **X** MIN. 130mm  
- **Z** MIN. 50mm  
  - (VERTICALLY DOWN FACE - SMOOTH)  
  - MIN. 75mm  
  - (VERTICALLY DOWN FACE - PROFILED)

**CATEGORY B**

1. EXPOSED (HIGHER RISK) & WIND LOAD EXCEEDS 1.5 kPa.  
2. ROOF PITCH <10°

- **X** MIN. 200mm  
- **Z** MIN. 75mm  
  - (VERTICALLY DOWN FACE - SMOOTH)  
  - MIN. 100mm  
  - (VERTICALLY DOWN FACE - PROFILED)

---

**SITUATION 1**

1. LOW, MEDIUM, HIGH WIND ZONES  
2. ROOF PITCH ≥10°

- **X** MIN. 130mm  
- **Z** MIN. 50mm  
  - (EXCLUDING ANY SOFT EDGE OR TURN-DOWN TO ROOFING)

**SITUATION 2**

1. VERY HIGH WIND ZONE  
2. ALL ROOF PITCHES

- **X** MIN. 200mm  
- **Z** MIN. 70mm  
  - (EXCLUDING ANY SOFT EDGE OR TURN-DOWN TO ROOFING)

**SITUATION 3**

1. EXTRA HIGH WIND ZONE  
2. ALL ROOF PITCHES

- **X** MIN. 200mm  
- **Z** MIN. 90mm

---

**DISCLAIMER:**  
All details are to be used for indicative purposes only and the designer should consult both the MRM code of practice version 2.2/2012, E2 and all other relevant building codes.  
Details of the supporting mechanisms are indicative only. Compliance of the supporting mechanisms is the responsibility of the designer. Construction detail can vary for wall cladding. The underlay is detailed as a single line for simplicity and is indicative only. Building paper type and method of installation should comply with underlay manufacturer’s recommendations and NZBC regulations.

---

**REFERENCE E2** FOR FURTHER INFORMATION ON FLASHING COVER WIDTHS.
ROOF FRAMING

PURLIN

METALCRAFT T-RIB ROOFING

PRE-FINISHED SELF DRILLING/TAPPING SCREW WITH RUBBER WASHER

BUILDING PAPER CONTINUOUS UNDER GUTTER IF COPPER BASED TREATMENTS ARE USED. SHOWN DASHED

PREFINISHED VALLEY GUTTER

A : OVERALL VALLEY GUTTER WIDTH

B : CLEARANCE BETWEEN ROOFING

C

MIN. 50mm

MIN. 20mm

*C : CLEARANCE BETWEEN ROOFING

SITUATION 1

MAX. CATCHMENT 25m²
MIN. ROOF PITCH 8°
MIN. 250mm
MIN. 50mm
MIN. 80mm

SITUATION 2

MAX. CATCHMENT 16m²
MIN. ROOF PITCH 12.5°
160mm - 249mm
MIN. 40mm
MIN. 60mm

PLEASE REFER TO MRM CODE OF PRACTICE VERSION 2.2/2012 AND E2 FOR FURTHER INFORMATION.

* ROOF PITCH FOR VALLEYS AS PER E2.

**ROOF PITCH FOR VALLEYS AS PER E2.

Reference RRTRI
Date 2014
Scale 1 : 2
Sheet 04 / 24

DISCLAIMER:
All details are to be used for indicative purposes only and the designer should consult both the MRM code of practice version 2.2/2012, E2 and all other relevant building codes. Details of the supporting mechanisms are indicative only. Compliance of the supporting mechanisms is the responsibility of the designer. Construction detail can vary for wall cladding. The underlay is detailed as a single line for simplicity and is indicative only. Building paper type and method of installation should comply with underlay manufacturer's recommendations and NZBC regulations.
**MELTACRAFT**
T-rib roofing

Building paper continuous over flashing shown dashed

Pre-finished self drilling/tapping screw with rubber washer

STST or GALV. flat head nail for flashing

Purlin

Pre-finished change of roof pitch flashing

Building paper continuous under flashing shown dashed

Stopends to roof cladding

Pre-finished self drilling/tapping screw with rubber washer

Roof framing

Purlin

Soft edge dressed over T-rib ribs

Metalcraft T-rib roofing

---

**Category A**
1. Normal exposure
2. Roof pitch >10°
X
- Min. 130mm

**Category B**
1. Exposed (Higher Risk) & wind load exceeds 1.5 kPa.
X
- Min. 200mm

Please refer to MRM code of Practice version 2.2/2012 for further information on flashing cover widths.

**Situation 1**
1. Low, medium, high wind zones
2. Roof pitch ≥ 10°
X
- Min. 130mm
(Excluding any soft edge or turn-down to roofing)

**Situation 2**
1. Very high wind zone
2. All roof pitches
X
- Min. 200mm
(Excluding any soft edge or turn-down to roofing)

**Situation 3**
1. Extra high wind zone
2. All roof pitches
X
- Min. 200mm

Please refer to E2 for further information on flashing cover widths.

---

Reference: RRTRI
Date: 2014
Scale: 1:2
Sheet: 05/24

**Disclaimer:**
All details are to be used for indicative purposes only and the designer should consult both the MRM code of practice version 2.2/2012, E2 and all other relevant building codes. Details of the supporting mechanisms are indicative only. Compliance of the supporting mechanisms is the responsibility of the designer. Construction detail can vary for wall cladding. The underlay is detailed as a single line for simplicity and is indicative only. Building paper type and method of installation should comply with underlay manufacturers recommendations and NZBC regulations.
**EAVE FLASHING REQUIRED WHEN**
- ROOF PITCH ≤ 10°, OR
- SOFFIT WIDTH ≤ 100mm, OR
- WIND ZONES = VERY HIGH OR EXTRA HIGH OR
- ENGINEER SPECIFIC DESIGN

* T-RIB MIN. ROOF PITCH = 3°

**METALCRAFT T-RIB ROOFING**

**BUILDING PAPER SHOWN**
- DASHED

**METALLINE™ QUAD GUTTER**

**METALLINE™ QUAD GUTTER OVERSTRAP**

**SPRING CLIP**

**METALLINE™ FASCIA**

**FASCIA BRACKET**

**PRE-FINISHED EAVE FLASHING**

**TIMBER PURLIN**

**STST OR GALV. FLAT HEAD NAIL FOR FLASHING**

**PRE-FINISHED SELF DRILLING/TAPPING SCREW WITH RUBBER WASHER**

**TIMBER ROOF FRAMING**

**SOFFIT LINING**

---

**DISCLAIMER:**
All details are to be used for indicative purposes only and the designer should consult both the MRM code of practice version 2.2 /2012, E2 and all other relevant building codes.
Details of the supporting mechanisms are indicative only. Compliance of the supporting mechanisms is the responsibility of the designer. Construction detail can vary for wall cladding. The underlay is detailed as a single line for simplicity and is indicative only. Building paper type and method of installation should comply with underlay manufacturer’s recommendations and NZBC regulations.
EAVER FLASHING REQUIRED WHEN
- ROOF PITCH ≤ 10°, OR
- SOFFIT WIDTH ≤ 100mm, OR
- WIND ZONES = VERY HIGH OR EXTRA HIGH OR
- ENGINEER SPECIFIC DESIGN

* T-rib MIN. ROOF PITCH = 3°

METALCRAFT T-RIB
ROOFING

BUILDING PAPER SHOWN
DASHED

METALLINE™ QUAD GUTTER

METALLINE™ QUAD GUTTER
INTERNAL BRACKET

PRE-FINISHED 8g WAFER-TEK
SCREW

TIMBER FASCIA

PRE-FINISHED EAWE FLASHING

TIMBER PURLIN

STST OR GALV. FLAT HEAD NAIL OR
FLASHING

PRE-FINISHED SELF
DRILLING/TAPPING SCREW WITH
RUBBER WASHER

TIMBER ROOF FRAMING

SOFFIT LINING

DISCLAIMER:
All details are to be used for indicative purposes only and the designer should consult both the MRM code of practice version 2.2/2012 and all other relevant building codes. Details of the supporting mechanisms are indicative only. Compliance of the supporting mechanisms is the responsibility of the designer. Construction detail can vary for wall cladding. The underlay is detailed as a single line for simplicity and is indicative only. Building paper type and method of installation should comply with underlay manufacturer’s recommendations and NZBC regulations.
EAVE FLASHING REQUIRED WHEN
- ROOF PITCH ≤ 10°, OR
- SOFFIT WIDTH ≤ 100mm, OR
- WIND ZONES = VERY HIGH OR EXTRA HIGH OR
- ENGINEER SPECIFIC DESIGN

*T-RIB
MIN. ROOF PITCH = 3°

METALCRAFT T-RIB
ROOFING

PRE-FINISHED POP RIVET
BEDDED IN SILICONE OR PRE-FINISHED 8g WAFER-TEK SCREW

SNOW STRAP AS REQUIRED

METALLINE™ QUAD GUTTER

METALLINE™ QUAD GUTTER INTERNAL BRACKET

PRE-FINISHED 8g WAFER-TEK SCREW

TIMBER FASCIA

BUILDING PAPER SHOWN DASHED

PRE-FINISHED EAVE FLASHING

TIMBER PURLIN

STST OR GALV. FLAT HEAD NAIL FOR FLASHING

PRE-FINISHED SELF DRILLING/TAPPING SCREW WITH RUBBER WASHER

TIMBER ROOF FRAMING

SOFFIT LINING

- BUILDING PAPER IS THE COMMON GENERIC NAME FOR PERMEABLE ROOF AND WALL UNDERLAYS. PLEASE REFER TO NZBC E2/AS1 AND MRM CODE OF PRACTICE VERSION 2.2/2012.

- PLEASE REFER TO MRM CODE OF PRACTICE VERSION 2.2/2012 AS MINIMUM PITCH WILL INCREASE DEPENDING ON SHEET LENGTH.

DISCLAIMER:
All details are to be used for indicative purposes only and the designer should consult both the MRM code of practice version 2.2/2012, E2 and all other relevant building codes. Details of the supporting mechanisms are indicative only. Compliance of the supporting mechanisms is the responsibility of the designer. Construction detail can vary for wall cladding. The underlay is detailed as a single line for simplicity and is indicative only. Building paper type and method of installation should comply with underlay manufacturers recommendations and NZBC regulations.
EAVE FLASHING REQUIRED WHEN
- ROOF PITCH ≤ 10°, OR
- SOFFIT WIDTH ≤ 100mm, OR
- WIND ZONES = VERY HIGH OR EXTRA HIGH OR
- ENGINEER SPECIFIC DESIGN

* T-RIB
MIN. ROOF PITCH = 3°

METALCRAFT T-RIB
ROOFING
BUILDING PAPER SHOWN
DASHED

QUARTER ROUND GUTTER
INTERNAL BRACKET

PRE-FINISHED 8g WAFER-TEK SCREW

FASCIA BOARD
TIMBER PACKER
WEATHERBOARDS ON CAVITY

PRE-FINISHED EAVE FLASHING
TIMBER PURLIN
STST OR GALV. FLAT HEAD NAIL FOR FLASHING
PRE-FINISHED SELF DRILLING/TAPPING SCREW WITH RUBBER WASHER
TIMBER PACKER
BUILDING PAPER SHOWN DASHED
ROOF FRAMING

DISCLAIMER:
All details are to be used for indicative purposes only and the designer should consult both the MRM code of practice version 2.2 /2012, E2 and all other relevant building codes. Details of the supporting mechanisms are indicative only. Compliance of the supporting mechanisms is the responsibility of the designer. Construction detail can vary for wall cladding. The underlay is detailed as a single line for simplicity and is indicative only. Building paper type and method of installation should comply with underlay manufacturer's recommendations and NZBC regulations.
**EAVE FLASHING REQUIRED WHEN**

- ROOF PITCH ≤ 10°, OR
- SOFFIT WIDTH ≤ 100mm, OR
- WIND ZONES = VERY HIGH OR EXTRA HIGH OR
- ENGINEER SPECIFIC DESIGN

* T-RIB

MIN. ROOF PITCH = 3°

**METALCRAFT T-RIB ROOFING**

BUILDING PAPER SHOWN DASHED

QUARTER ROUND GUTTER

QUARTER ROUND GUTTER EXTERNAL BRACKET

PRE-FINISHED 8g WAFER-TEK SCREW

FASCIA BOARD

TIMBER PACKER

WEATHERBOARDS ON CAVITY

PRE-FINISHED EAVE FLASHING

TIMBER PURLIN

STST OR GALV. FLAT HEAD NAIL FOR FLASHING

PRE-FINISHED SELF DRILLING/TAPPING SCREW WITH RUBBER WASHER

TIMBER PACKER

BUILDING PAPER SHOWN DASHED

ROOF FRAMING

---

**DISCLAIMER:**

All details are to be used for indicative purposes only and the designer should consult both the MRM code of practice version 2.2 /2012, E2 and all other relevant building codes.

Details of the supporting mechanisms are indicative only. Compliance of the supporting mechanisms is the responsibility of the designer. Construction detail can vary for wall cladding. The underlay is detailed as a single line for simplicity and is indicative only. Building paper type and method of installation should comply with underlay manufacturers recommendations and NZBC regulations.
PRE-FINISHED BARGE FLASHING

TIMBER PACKER

BARGE BOARD

HEMMED EDGE

ALTERNATIVE OPTION BIRDS BEAK EDGE

WEATHERBOARDS ON CAVITY

BUILDING PAPER SHOWN DASHED

PRE-FINISHED 8g WAFER-TEK SCREW BEDDED IN SILICONE

TIMBER PACKER

BUILDING PAPER SHOWN DASHED

PURLIN

PRE-FINISHED SELF DRILLING/TAPPING SCREW WITH RUBBER WASHER

METALCRAFT T-RIB ROOFING

REFERENCE:

DISCLAIMER:

All details are to be used for indicative purposes only and the designer should consult both the MRM code of practice version 2.2 /2012, E2 and all other relevant building codes.

Details of the supporting mechanisms are indicative only. Compliance of the supporting mechanisms is the responsibility of the designer. Construction detail can vary for wall cladding. The underlay is detailed as a single line for simplicity and is indicative only. Building paper type and method of installation should comply with underlay manufacturers recommendations and NZBC regulations.

PLEASE REFER TO MRM CODE OF PRACTICE VERSION 2.2/2012 FOR FURTHER INFORMATION ON FLASHING COVER WIDTHS.

PLEASE REFER TO E2 FOR FURTHER INFORMATION ON FLASHING COVER WIDTHS.
PRE-FINISHED 8g WAFER-TEK SCREW BEDDED IN SILICONE

PRE-FINISHED BARGE FLASHING

METALCRAFT T-RIB ROOFING

PRE-FINISHED SELF DRILLING/TAPPING SCREW WITH RUBBER WASHER

BUILDING PAPER SHOWN DASHED

FLY RAFTER

PURLIN

ALTERNATIVE OPTION BIRDS BEAK EDGE

HEMMED EDGE

BARGE BOARD

SOFFIT LINING

Y

Z

5 GAP

5mm GAP

SITUATION 1
1. LOW, MEDIUM, HIGH WIND ZONES
2. ROOF PITCH ≥10°
Y ONE RIB (TRAPEZOIDAL & TRAY)
Z MIN. 50mm (VERTICALLY DOWN FACE - SMOOTH)
MIN. 75mm (VERTICALLY DOWN FACE - PROFILED)

SITUATION 2
1. VERY HIGH WIND ZONE
2. ALL ROOF PITCHES
Y AT LEAST TWO CRESTS
Z MIN. 70mm

SITUATION 3
1. EXTRA HIGH WIND ZONE
2. ALL ROOF PITCHES
Y AT LEAST TWO CRESTS
Z MIN. 90mm

PLEASE REFER TO E2 FOR FURTHER INFORMATION ON FLASHING COVER WIDTHS.

CATEGORY A
1. NORMAL EXPOSURE
2. ROOF PITCH >10°

CATEGORY B
1. EXPOSED (HIGHER RISK) & WIND LOAD EXCEEDS 1.5 kPa.
2. ROOF PITCH <10°

ONE RIB, TWO RIBS (=20mm) (TRAPEZOIDAL & TRAY)
3 CORRUGATIONS (T-RIB)

MIN. 75mm (VERTICALLY DOWN FACE - SMOOTH)
MIN. 100mm (VERTICALLY DOWN FACE - PROFILED)

PLEASE REFER TO MRM CODE OF PRACTICE VERSION 2.2/2012 FOR FURTHER INFORMATION ON FLASHING COVER WIDTHS.

DISCLAIMER:
All details are to be used for indicative purposes only and the designer should consult both the MRM code of practice version 2.2/2012, E2 and all other relevant building codes. Details of the supporting mechanisms are indicative only. Compliance of the supporting mechanisms is the responsibility of the designer. Construction detail can vary for wall cladding. The underlay is detailed as a single line for simplicity and is indicative only. Building paper type and method of installation should comply with underlay manufacturer's recommendations and NZBC regulations.

- BUILDING PAPER IS THE COMMON GENERIC NAME FOR PERMEABLE ROOF AND WALL UNDERLYERS. PLEASE REFER TO NZBC E2/AS1 AND MRM CODE OF PRACTICE VERSION 2.2/2012.

Reference RRTRI Date 2014 Scale 1:2 Sheet 12/24
**Situation 1**
- Low, medium, high wind zones
- Roof pitch \(\geq 10°\)
  - Minimum 35mm
  - Minimum 75mm
  - Minimum 130mm (excluding any soft edge or turn-down to roofing)
  - Minimum 50mm

**Situation 2**
- Very high wind zone
- All roof pitches
  - Minimum 35mm
  - Minimum 75mm
  - Minimum 200mm (excluding any soft edge or turn-down to roofing)
  - Minimum 70mm

**Situation 3**
- Extra high wind zone
- All roof pitches
  - Minimum 35mm
  - Minimum 75mm
  - Minimum 200mm (excluding any soft edge or turn-down to roofing)
  - Minimum 90mm

Please refer to E2 for further information on flashing cover widths.

**Category A**
- Normal exposure
- Roof pitch >10°
  - Minimum 25mm
  - Minimum 50mm + hem (vertically up face - smooth)
  - Minimum 75mm + hem (vertically up face - profiled)
  - Minimum 150mm

**Category B**
- Exposed (higher risk) & wind load exceeds 1.5 kPa.
- Roof pitch <10°
  - Minimum 25mm
  - Minimum 75mm + hem (vertically up face - smooth)
  - Minimum 100mm + hem (vertically up face - profiled)

Please refer to MRM Code of Practice Version 2.2/2012 for further information on flashing cover widths.

Reference RRTRI
Date 2014
Scale 1 : 2
Sheet 13 / 24

**Disclaimer:**
All details are to be used for indicative purposes only and the designer should consult both the MRM code of practice version 2.2/2012, E2 and all other relevant building codes.
Details of the supporting mechanisms are indicative only. Compliance of the supporting mechanisms is the responsibility of the designer. Construction detail can vary for wall cladding. The underlay is detailed as a single line for simplicity and is indicative only. Building paper type and method of installation should comply with underlay manufacturer recommendations and NZBC regulations.

- **BB**
  - Pre-finished parapet cap flashing
  - Timber packer

- **G**
  - Continuous timber packing
  - Building paper to provide separation of metal capping and timber shown dashed

- **N**
  - 8g wafer-tec screw bedded in silicone

- **Z**
  - Soft edge dressed over T-rib ribs

- **G**
  - Pre-finished self drilling/tapping screw with rubber washer

- **N**
  - Pre-finished self drilling/tapping screw with rubber washer

- **L**
  - Pre-finished apron flashing
  - Soft edge dressed over T-rib ribs
  - Metalcraft T-rib roofing

- **Z**
  - Building paper shown dashed

- **Z**
  - Stopends to roof cladding

- **Z**
  - Timber nog for fixing apron flashing

- **Z**
  - Timber purlin

- **Z**
  - Roof framing

- **Z**
  - Barge board

- **Z**
  - Timber packer

- **Z**
  - Weatherboards on cavity

- **Z**
  - Building paper shown dashed

- **Z**
  - Wall framing

- **Z**
  - T-rib min. roof pitch = 3°

- **Z**
  - Reference number RRTRI

- **Z**
  - Date of plan 2014

- **Z**
  - Scale 1:2

- **Z**
  - Sheet 13 of 24

- **Z**
  - PRE-FINISHED APRON FLASHING

- **Z**
  - PRE-FINISHED T-ROOFING WITH TRANSVERSE APRON

- **Z**
  - RESIDENTIAL ROOFING T-Rib

- **Z**
  - Building paper is the common generic name for permeable roof and wall underlays. Please refer to NZBC E2/AS1 and MRM code of practice version 2.2/2012.

- **Z**
  - * - Please refer to MRM code of practice version 2.2/2012 as minimum pitch will increase depending on sheet length.
TRANVERSE APRON

SITUATION 1
1. LOW, MEDIUM, HIGH WIND ZONES
   2. ROOF PITCH ≥ 10°
   - MIN. 35mm
   - MIN. 75mm
   - MIN. 130mm
   (EXCLUDING ANY SOFT EDGE OR TURN-DOWN TO ROOFING)

SITUATION 2
1. VERY HIGH WIND ZONE
   2. ALL ROOF PITCHES
   - MIN. 35mm
   - MIN. 75mm
   - MIN. 200mm
   (EXCLUDING ANY SOFT EDGE OR TURN-DOWN TO ROOFING)

SITUATION 3
1. EXTRA HIGH WIND ZONE
   2. ALL ROOF PITCHES
   - MIN. 35mm
   - MIN. 75mm
   - MIN. 200mm

PLEASE REFER TO E2 FOR FURTHER INFORMATION ON FLASHING COVER WIDTHS.

CATEGORY A
1. NORMAL EXPOSURE
2. ROOF PITCH > 10°
   - G: 25mm
   - N: MIN. 50mm + HEM OR 75mm
     (VERTICALLY UP FACE - SMOOTH)
     MIN. 75mm + HEM OR
     100mm
     (VERTICALLY UP FACE - PROFILED)
   - L: MIN. 150mm

CATEGORY B
1. EXPOSED (HIGHER RISK) & WIND LOAD EXCEEDS 1.5 kPa.
   2. ROOF PITCH < 10°
   - G: 25mm
   - N: MIN. 75mm + HEM OR 100mm
     (VERTICALLY UP FACE - SMOOTH)
     MIN. 100mm + HEM OR
     125mm
     (VERTICALLY UP FACE - PROFILED)
   - L: MIN. 200mm

PLEASE REFER TO MRM CODE OF PRACTICE VERSION 2.2/2012 FOR FURTHER INFORMATION ON FLASHING COVER WIDTHS.

DISCLAIMER:
All details are to be used for indicative purposes only and the designer should consult both the MRM code of practice version 2.2/2012, E2 and all other relevant building codes. Details of the supporting mechanisms are indicative only. Compliance of the supporting mechanisms is the responsibility of the designer. Construction detail can vary for wall cladding. The underlay is detailed as a single line for simplicity and is indicative only. Building paper type and method of installation should comply with underlay manufacturers recommendations and NZBC regulations.

- BUILDING PAPER IS THE COMMON GENERIC NAME FOR PERMEABLE ROOF AND WALL UNDERLAYS. PLEASE REFER TO NZBC E2/AS1 AND MRM CODE OF PRACTICE VERSION 2.2/2012.

- PLEASE REFER TO MRM CODE OF PRACTICE VERSION 2.2/2012 AS MINIMUM PITCH WILL INCREASE DEPENDING ON SHEET LENGTH.

Residential Roofing

Page Scale Date Reference
14 / 24 1:2 2014 RRTRI

Metalcraft Roofing
**WEATHERBOARDS ON CAVITY**

**BUILDING PAPER OVER FLASHING SHOWN DASHED**

**PVC CAVITY CLOSER**

**STST OR GALV. FLAT HEAD NAIL FOR FIXING**

**PRE-FINISHED APRON FLASHING**

**CANT STRIP PACKER**

**NOG FOR FIXING APRON FLASHING**

**BUILDING PAPER SHOWN DASHED**

**PURLIN**

**WALL FRAMING**

**ROOF FRAMING**

---

**METALCRAFT T-RIB ROOFING**

**PRE-FINISHED SELF DRILLING/TAPPING SCREW WITH RUBBER WASHER**

**PARALLEL APRON**

---

**Reference RRTRI**

**Date 2014**

**Scale 1 : 2**

**Sheet 15 / 24**
THIS DETAIL IS APPLIED ONLY WHEN
- ROOF PITCH MIN. 10° and MAX. 45°
- PIPE DIAMETER MAX. 85mm

* MIN. 10° FOR PIPE PENETRATION

EPDM FLEXIBLE CONE SLEEVE
METALCRAFT T-RIB ROOFING
BUILDING PAPER SHOWN DASHED
PRE-FINISHED SELF DRILLING/TAPPING SCREW WITH RUBBER WASHER
TIMBER PURLIN

PIPE (PIPE DIAMETER MAX. 85mm)
MALLEABLE FLANGE, SCREW OR RIVET FIXED, AND SEALED TO ROOFING PROFILE. FIT NEOPRENE WASHERS TO ALL SCREW FIXINGS. FITTED ON 45° ANGLE IN PLAN. REFER TO MRM CODE OF PRACTICE VERSION 2/2012.

MAX. 85mm DIAMETER PIPE PENETRATION

METALCRAFT T-RIB ROOFING
BUILDING PAPER SHOWN DASHED

* - PLEASE REFER TO MRM CODE OF PRACTICE VERSION 2.2 /2012 AS MINIMUM PITCH WILL INCREASE DEPENDING ON SHEET LENGTH.

DISCLAIMER:
All details are to be used for indicative purposes only and the designer should consult both the MRM code of practice version 2.2 /2012, E2 and all other relevant building codes.
Details of the supporting mechanisms are indicative only. Compliance of the supporting mechanisms is the responsibility of the designer. Construction detail can vary for wall cladding. The underlay is detailed as a single line for simplicity and is indicative only. Building paper type and method of installation should comply with underlay manufacturers recommendations and NZBC regulations.
THIS DETAIL IS APPLIED ONLY WHEN
- ROOF PITCH MIN. 10°
- PIPE DIAMETER OVER 85mm AND MAX. 500mm
- PIPE TO BE POSITIONED AS CLOSE TO ROOF RIDGE
  AS POSSIBLE

* MIN. 10" FOR PIPE PENETRATION

EPDM FLEXIBLE CONE SLEEVE

PRE-FINISHED SELF DRILLING/TAPPING
SCREW WITH RUBBER WASHER

METALCRAFT T-RIB ROOFING

PURLIN

MALLEABLE FLANGE, SCREW OR RIVET FIXED,
AND SEALED TO ROOFING PROFILE. FIT
NEOPRENE WASHERS TO ALL SCREW FIXINGS.
FITTED ON 45° ANGLE IN PLAN. REFER TO MRM
CODE OF PRACTICE VERSION 2.2/2012.

METALCRAFT T-RIB ROOFING

NOGS BETWEEN PURLINS FOR
PENETRATION

L REFER TO SHEET NO. 14/24 TRANSVERSE APRON
M REFER TO SHEET NO. 16/24 PARALLEL APRON
X REFER TO SHEET NO. 01/24 ROOF RIDGE

- BUILDING PAPER IS THE COMMON GENERIC NAME FOR PERMEABLE
  ROOF AND WALL UNDERLAYS. PLEASE REFER TO NZBC E2/AS1 AND
  MRM CODE OF PRACTICE VERSION 2.2/2012.

* PLEASE REFER TO MRM CODE OF PRACTICE VERSION 2.2/2012 AS
MINIMUM PITCH WILL INCREASE DEPENDING ON SHEET LENGTH.

DISCLAIMER:
All details are to be used for indicative purposes only and the designer should consult both the MRM code
of practice version 2.2/2012, E2 and all other relevant building codes.
Details of the supporting mechanisms are indicative only. Compliance of the supporting mechanisms is the
responsibility of the designer. Construction detail can vary for wall cladding. The underlay is detailed as a
single line for simplicity and is indicative only. Building paper type and method of installation should comply
with underlay manufacturers recommendations and NZBC regulations.
PRE-FINISHED RIDGE CAP FLASHING

METALCRAFT T-RIB ROOFING

PRE-FINISHED BARGE FLASHING

PURLIN

ROOF FRAMING

FASCIA BOARD

WALL FRAMING

WALL CLADDING ON CAVITY

* PLEASE REFER TO MRM CODE OF PRACTICE VERSION 2.2/2012 AND RANZ HOW TO ON-SITE GUIDE METAL ROOF FLASHINGS FOR FURTHER INFORMATION ON FLASHING COVER WIDTHS.

DISCLAIMER:
All details are to be used for indicative purposes only and the designer should consult both the MRM code of practice version 2.2/2012, E2 and all other relevant building codes. Details of the supporting mechanisms are indicative only. Compliance of the supporting mechanisms is the responsibility of the designer. Construction detail can vary for wall cladding. The underlay is detailed as a single line for simplicity and is indicative only. Building paper type and method of installation should comply with underlay manufacturers recommendations and NZBC regulations.
PRE-FINISHED RIDGE FLASHING
PRE-FINISHED BARGE FLASHING
PRE-FINISHED HIP FLASHING
PRE-FINISHED APRON FLASHING
METALCRAFT T-RIB ROOFING
TURN DOWN INTO GUTTER
REFER TO EAVE DETAILS FOR MINIMUM ROOF OVERHANG
GUTTER
FASCIA BOARD
WALL CLADDING ON CAVITY

* PLEASE REFER TO MRM CODE OF PRACTICE VERSION 2.2/2012 AND RANZ HOW TO ON-SITE GUIDE METAL ROOF FLASHINGS FOR FURTHER INFORMATION ON FLASHING COVER WIDTHS.

DISCLAIMER:
All details are to be used for indicative purposes only and the designer should consult both the MRM code of practice version 2.2 /2012, E2 and all other relevant building codes. Details of the supporting mechanisms are indicative only. Compliance of the supporting mechanisms is the responsibility of the designer. Construction detail can vary for wall cladding. The underlay is detailed as a single line for simplicity and is indicative only. Building paper type and method of installation should comply with underlay manufacturer’s recommendations and NZBC regulations.
WALL CLADDING ON CAVITY

PRE-FINISHED APRON DIVERTER

PRE-FINISHED APRON FLASHING WITH HEMMED EDGE

METALCRAFT T-RIB ROOFING
TURN DOWN INTO GUTTER
REFER TO EAVE DETAILS FOR MINIMUM ROOF OVERHANG

GUTTER

FASCIA BOARD

WALL CLADDING ON CAVITY

* PLEASE REFER TO MRM CODE OF PRACTICE VERSION 2.2/2012 AND RANZ HOW TO ON-SITE GUIDE METAL ROOF FLASHINGS FOR FURTHER INFORMATION ON FLASHING COVER WIDTHS.

DISCLAIMER:
All details are to be used for indicative purposes only and the designer should consult both the MRM code of practice version 2.2/2012, E2 and all other relevant building codes. Details of the supporting mechanisms are indicative only. Compliance of the supporting mechanisms is the responsibility of the designer. Construction detail can vary for wall cladding. The underlay is detailed as a single line for simplicity and is indicative only. Building paper type and method of installation should comply with underlay manufacturer’s recommendations and NZBC regulations.
PRE-FINISHED SOAKER FLASHING LINE UNDER PRE-FINISHED ROOF RIDGE FLASHING

PRE-FINISHED ROOF RIDGE FLASHING

PRE-FINISHED SOAKER FLASHING

MALLEABLE FLANGE, SCREW OR RIVET FIXED, AND SEALED TO ROOFING PROFILE. FIT NEOPRENE WASHERS TO ALL SCREW FIXINGS. FITTED ON 45° ANGLE IN PLAN. REFER TO MRM CODE OF PRACTICE VERSION 2/2012.

METALCRAFT T-RIB ROOFING

3D OVER 85mm DIAMETER PIPE PENETRATION

DISCLAIMER: All details are to be used for indicative purposes only and the designer should consult both the MRM code of practice version 2.2/2012, E2 and all other relevant building codes. Details of the supporting mechanisms are indicative only. Compliance of the supporting mechanisms is the responsibility of the designer. Construction detail can vary for wall cladding. The underlay is detailed as a single line for simplicity and is indicative only. Building paper type and method of installation should comply with underlay manufacturers recommendations and NZBC regulations.
Disclaimers:

All details are to be used for indicative purposes only and the designer should consult both the MRM code of practice version 2.2/2012, E2 and all other relevant building codes. Details of the supporting mechanisms are indicative only. Compliance of the supporting mechanisms is the responsibility of the designer. Construction detail can vary for wall cladding. The underlay is detailed as a single line for simplicity and is indicative only. Building paper type and method of installation should comply with underlay manufacturer's recommendations and NZBC regulations.

* Please refer to MRM Code of Practice Version 2.2/2012 and RANZ How to On-site Guide Metal Roof Flashings for further information on flashing cover widths.
Reference

DISCLAIMER:
All details are to be used for indicative purposes only and the designer should consult both the MRM code of practice version 2.2/2012, E2 and all other relevant building codes. Details of the supporting mechanisms are indicative only. Compliance of the supporting mechanisms is the responsibility of the designer. Construction detail can vary for wall cladding. The underlay is detailed as a single line for simplicity and is indicative only. Building paper type and method of installation should comply with underlay manufacturers recommendations and NZBC regulations.

* PLEASE REFER TO MRM CODE OF PRACTICE VERSION 2.2/2012 AND RANZ HOW TO ON SITE GUIDE METAL ROOF FLASHINGS FOR FURTHER INFORMATION ON FLASHING COVER WIDTHS.
(4) PRE-FINISHED BARGE FLASHING

(3) PRE-FINISHED 3D SADDLE FLASHING

(2) PRE-FINISHED APRON FLASHING

(1) PRE-FINISHED HIP FLASHING

* PLEASE REFER TO MRM CODE OF PRACTICE VERSION 2.2/2012 AND RANZ HOW TO ON-SITE GUIDE METAL ROOF FLASHINGS FOR FURTHER INFORMATION ON FLASHING COVER WIDTHS.

DISCLAIMER:
All details are to be used for indicative purposes only and the designer should consult both the MRM code of practice version 2.2/2012, E2 and all other relevant building codes. Details of the supporting mechanisms are indicative only. Compliance of the supporting mechanisms is the responsibility of the designer. Construction detail can vary for wall cladding. The underlay is detailed as a single line for simplicity and is indicative only. Building paper type and method of installation should comply with underlay manufacturers recommendations and NZBC regulations.