| - | CLIENT | DRAWING TITLE |  | $\begin{aligned} & \hline \text { SCALE } \\ & \text { N.T.S } \end{aligned}$ |  |
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| PROJECT |  | DRAWING NUMBER | SHEET | $\begin{aligned} & \text { REVIIION } \\ & 0 \end{aligned}$ | A4 |

## BILL OF MATERIAL

| Item | Part Number | Description | Qty | t | d | HILTI X-BT-MR M10/W10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 369685 | Channel End Cap MQZ-E41 | 1 |  |  |  |
| 2 | 370597 | Bracket MQK-41/3/600 | 1 |  |  |  |
| 3.1 | $\begin{aligned} & 2194340 / \\ & 2194341 \end{aligned}$ | X-BT MR M10/W10/15 SN 8 (A4 SS Flange Nut Included) | 2 | $\begin{aligned} & 2 \leq t \leq 15 \mathrm{~mm} \\ & 0.08 " \leq t \leq 0.59 " \end{aligned}$ | $13 \leq \mathrm{d} \leq 18 \mathrm{~mm}$ | HILTI X-BT-MF M10/W10 |
| 3.2 | $\begin{aligned} & 2083549 / \\ & 2083620 \end{aligned}$ | X-BT MF M10/W10/10 SN 4 <br> (FRP Flange Included) | 2 | $\begin{aligned} & 2 \leq \mathrm{t} \leq 10 \mathrm{~mm} \\ & 0.08^{\prime \prime} \leq \mathrm{t} \leq 0.39 " \end{aligned}$ | $1 / 2 " \leq d \leq 3 / 4 "$ |  |
| 3.3 | $\begin{aligned} & 2140740 / \\ & 2140741 \end{aligned}$ | S-BT MR M10/W10/10 SN 6 (A4 SS Flange Nut Included) | 2 | $\begin{aligned} & 1.6 \leq \mathrm{t} \leq 15 \mathrm{~mm} \\ & 1 / 16^{\prime \prime} \leq \mathrm{t} \leq 0.59^{\prime \prime} \end{aligned}$ | $18<d \leq 22 m m$ <br> (use washer | HILTI S-BT-MR/MF M10/W10 |
| 3.4 | $\begin{aligned} & \hline 2140528 / \\ & 2139173 \end{aligned}$ | S-BT MF M10/W10/10 AN 6 (FRP Flange Included) | 2 | $\begin{aligned} & 1.6 \leq t \leq 15 \mathrm{~mm} \\ & 1 / 16^{\prime \prime} \leq t \leq 0.59^{\prime \prime} \end{aligned}$ | with flange nut) |  |
| 3.5 | $\begin{aligned} & 2122460 \\ & 2184481 \\ & 52460 \end{aligned}$ | X-ST-GR M8/10 P8 Flat <br> Washer 10,5x20x2 ISO 7089 <br> Hexagon Nut M8 A4-70 | 2 | $\begin{aligned} & \mathrm{t} \leq 10 \mathrm{~mm} \\ & \mathrm{t} \leq 0.39^{\prime \prime} \end{aligned}$ | $\begin{aligned} & 9 \leq d \leq 18 \mathrm{~mm} \\ & 0.35^{\prime \prime} \leq \mathrm{d} \leq 0.39^{\prime \prime} \end{aligned}$ | HILTI X-ST-GR M8 |


| - | CLIENT | DRAWING TITLE |  | $\begin{aligned} & \hline \text { SCALE } \\ & \text { N.T.S } \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| PROJECT |  | DRAWING NUMBER | SHEET | $\begin{aligned} & \text { REVIIION } \\ & 0 \end{aligned}$ | $\begin{aligned} & \text { FORMAT } \\ & \text { A4 } \end{aligned}$ |

## ISOMETRIC VIEW

| BILL | OF MATER | RIAL SIDE VIEW |  | DETAILS VIEW |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Item | Part Number | Description | Qty | t | d | HILTI X-BT-MR M10/W10 |  |  |
| 1 | 369685 | Channel End Cap MQZ-E41 | 1 |  |  |  |  |  |
| 2 | 370597 | Bracket MQK-41/3/600 | 1 |  |  |  |  |  |
| 3 | 369597 | I-Channel MQ-41/3 6m | 1 |  |  |  |  |  |
| 4 | 369649 | Rail Support MQP-45 | 1 |  |  |  |  |  |
| 5 | 2184850 | Push Button MQN | 6 |  |  | HILTI X-BT-MF M10/W10 |  |  |
| 6 | 369649 | 8-Hole Angle MQW-8/45 | 1 |  |  |  |  |  |
| 7.1 | $\begin{aligned} & 2194340 / \\ & 2194341 \end{aligned}$ | X-BT MR M10/W10/15 SN 8 (A4 SS Flange Nut Included) | $\begin{aligned} & 3 \\ & 3 \end{aligned}$ | $\begin{aligned} & 2 \leq \mathrm{t} \leq 15 \mathrm{~mm} \\ & 0.08^{\prime \prime} \leq \mathrm{t} \leq 0.59^{\prime \prime} \end{aligned}$ | $\begin{aligned} & 13 \leq \mathrm{d} \leq 18 \mathrm{~mm} \\ & 1 / 2^{\prime \prime} \leq \mathrm{d} \leq 3 / 4^{\prime \prime} \\ & \\ & 18<\mathrm{d} \leq 22 \mathrm{~mm} \\ & \text { (use washer } \\ & \text { with flange nut) } \end{aligned}$ |  |  |  |
| 7.2 | $\begin{aligned} & 2083549 / \\ & 2083620 \\ & \hline \end{aligned}$ | X-BT MF M10/W10/10 SN 4 <br> (FRP Flange Nut Included) | $\begin{aligned} & 3 \\ & 3 \\ & \hline \end{aligned}$ | $\begin{aligned} & 2 \leq t \leq 10 \mathrm{~mm} \\ & 0.08^{\prime \prime} \leq \mathrm{t} \leq 0.39^{\prime \prime} \end{aligned}$ |  | HILTI | S-BT-MR/MF M10/W10 |  |
| 7.3 | $\begin{aligned} & 2140740 / \\ & 2140741 \end{aligned}$ | S-BT MR M10/W10/10 SN 6 (A4 SS Flange Nut Included) | $\begin{aligned} & 3 \\ & 3 \end{aligned}$ | $\begin{aligned} & 1.6 \leq \mathrm{t} \leq 15 \mathrm{~mm} \\ & 1 / 16^{\prime \prime} \leq \mathrm{t} \leq 0.59^{\prime \prime} \end{aligned}$ |  |  |  |  |
| 7.4 | $\begin{aligned} & 2140528 / \\ & 2139173 \end{aligned}$ | S-BT MF M10/W10/10 AN 6 (FRP Flange Nut Included) | $\begin{aligned} & 3 \\ & 3 \end{aligned}$ | $\begin{aligned} & 1.6 \leq \mathrm{t} \leq 15 \mathrm{~mm} \\ & 1 / 16^{\prime \prime} \leq \mathrm{t} \leq 0.59^{\prime \prime} \end{aligned}$ |  |  | HILTI X-ST-GR M8 |  |
| 7.5 | $\begin{aligned} & 2122460 \\ & 2184481 \\ & 52460 \\ & \hline \hline \end{aligned}$ | X-ST-GR M8/10 P8 <br> Washer 10,5x20x2 ISO 7089 <br> Hexagon Nut M8 A4-70 | $\begin{aligned} & 3 \\ & 3 \\ & 3 \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{t} \leq 10 \mathrm{~mm} \\ & \mathrm{t} \leq 0.39 " \end{aligned}$ | $\begin{aligned} & 9 \leq d \leq 18 \mathrm{~mm} \\ & 0.35^{\prime \prime} \leq d \leq 0.39^{\prime \prime} \end{aligned}$ |  |  |  |

[^0] building/construction legislation, must be observed as seen fitatonesomn responsibility
Hilti Asia IT Service | E\&l PMO | Level 4 | Tower 3 | BrunsfieldOasis | No. 2 JalanPJU 1A/7A | Oasis Square | Oasis Damansara | 47301 | Petaling Jaya | Selangor | Malaysio |

| - | CLIENT | DRAWING TITLE |  | $\begin{aligned} & \hline \text { SCALE } \\ & \text { N.T.S } \end{aligned}$ |  |
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| PROJECT |  | DRAWING NUMBER | SHEET | $\begin{aligned} & \text { REVIIION } \\ & 0 \end{aligned}$ | A4 |

## BILL OF MATERIAL

| Item | Part Number | Description | Qty | t | d | HILTI X-BT-MR M |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 369685 | Channel End Cap MQZ-E41 | , |  |  |  |
| 2 | 369591 | I-Channel MQ-41 3m | 1 |  |  |  |
| 3.1 | $\begin{aligned} & 2194340 / \\ & 2194341 \end{aligned}$ | X-BT MR M10/W10/15 SN 8 (A4 SS Flange Nut Included) | 2 | $\begin{aligned} & 2 \leq t \leq 15 \mathrm{~mm} \\ & 0.08 " \leq t \leq 0.59 " \end{aligned}$ | $13 \leq \mathrm{d} \leq 18 \mathrm{~mm}$ | HILTI X-BT-MF M10/W10 |
| 3.2 | $\begin{aligned} & 2083549 / \\ & 2083620 \end{aligned}$ | X-BT MF M10/W10/10 SN 4 (FRP Flange Nut Included) | 2 | $\begin{aligned} & 2 \leq t \leq 10 \mathrm{~mm} \\ & 0.08 " \leq t \leq 0.39 " \end{aligned}$ | $1 / 2^{\prime \prime} \leq d \leq 3 / 4^{\prime \prime}$ |  |
| 3.3 | $\begin{aligned} & 2140740 / \\ & 2140741 \end{aligned}$ | S-BT MR M10/W10/10 SN 6 (A4 SS Flange Nut Included) | 2 | $\begin{aligned} & 1.6 \leq \mathrm{t} \leq 15 \mathrm{~mm} \\ & 1 / 16^{\prime \prime} \leq \mathrm{t} \leq 0.59 " \end{aligned}$ | $18<d \leq 22 \mathrm{~mm}$ (use washer | HILTI S-BT-MR/MF M10/W10 |
| 3.4 | $\begin{aligned} & 2140528 / \\ & 2139173 \end{aligned}$ | S-BT MF W10/10 AN 6 (FRP Flange Nut Included) | 2 | $\begin{aligned} & 1.6 \leq \mathrm{t} \leq 15 \mathrm{~mm} \\ & 1 / 16^{\prime \prime} \leq \mathrm{t} \leq 0.59^{\prime \prime} \end{aligned}$ | with flange nut) |  |
| 3.5 | $\begin{aligned} & 2122460 \\ & 2184481 \\ & 52460 \end{aligned}$ | X-ST-GR M8/10 P8 Washer 10,5x20x2 ISO 7089 Hexagon Nut M8 A4-70 | 2 | $\begin{aligned} & \mathrm{t} \leq 10 \mathrm{~mm} \\ & \mathrm{t} \leq 0.39^{\prime \prime} \end{aligned}$ | $\begin{aligned} & 9 \leq d \leq 18 \mathrm{~mm} \\ & 0.35^{\prime \prime} \leq d \leq 0.39^{\prime \prime} \end{aligned}$ | HILTI X-ST-GR M8 |


| - | CLIENT | DRAWING TITLE |  | $\begin{aligned} & \hline \text { SCALE } \\ & \text { N.T.S } \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| PROJECT |  | DRAWING NUMBER | SHEET | $\begin{aligned} & \text { REVIIION } \\ & 0 \end{aligned}$ | $\begin{aligned} & \text { FORMAT } \\ & \text { A4 } \end{aligned}$ |

## BILL OF MATERIAL

| Item | Part Number | Description | Qty | t | d | HILTI X-BT-MR M10/W10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 369685 | Channel End Cap MQZ-E41 | 2 |  |  |  |
| 2 | 369591 | I-Channel MQ-41 3m | 1 |  |  |  |
| 3.1 | $\begin{aligned} & 2194340 / \\ & 2194341 \end{aligned}$ | X-BT MR M10/W10/15 SN 8 (A4 SS Flange Nut Included) | 2 | $\begin{aligned} & 2 \leq t \leq 15 \mathrm{~mm} \\ & 0.08{ }^{\prime \prime} \leq \mathrm{t} \leq 0.59 " \end{aligned}$ | $13 \leq \mathrm{d} \leq 18 \mathrm{~mm}$ | HILTI X-BT-MF M10/W10 |
| 3.2 | $\begin{aligned} & 2083549 / \\ & 2083620 \end{aligned}$ | X-BT MF M10/W10/10 SN 4 <br> (FRP Flange Nut Included) | 2 | $\begin{aligned} & 2 \leq t \leq 10 \mathrm{~mm} \\ & 0.08^{\prime \prime} \leq t \leq 0.39^{\prime \prime} \end{aligned}$ | $1 / 2 " \leq d \leq 3 / 4 "$ |  |
| 3.3 | $\begin{aligned} & 2140740 / \\ & 2140741 \end{aligned}$ | S-BT MR M10/W10/10 SN 6 (A4 SS Flange Nut Included) | 2 | $\begin{aligned} & 1.6 \leq \mathrm{t} \leq 15 \mathrm{~mm} \\ & 1 / 16^{\prime \prime} \leq \mathrm{t} \leq 0.59^{\prime \prime} \end{aligned}$ | $18<d \leq 22 \mathrm{~mm}$ (use washer | HILTI S-BT-MR/MF M10/W10 |
| 3.4 | $\begin{aligned} & 2140528 / \\ & 2139173 \end{aligned}$ | S-BT MF W10/10 AN 6 (FRP Flange Nut Included) | 2 | $\begin{aligned} & 1.6 \leq \mathrm{t} \leq 15 \mathrm{~mm} \\ & 1 / 16^{\prime \prime} \leq \mathrm{t} \leq 0.59^{\prime \prime} \end{aligned}$ | with flange nut) |  |
| 3.5 | $\begin{aligned} & 2122460 \\ & 2184481 \\ & 52460 \end{aligned}$ | X-ST-GR M8/10 P8 Washer 10,5x20x2 ISO 7089 Hexagon Nut M8 A4-70 | 2 | $\begin{aligned} & \mathrm{t} \leq 10 \mathrm{~mm} \\ & \mathrm{t} \leq 0.39^{\prime \prime} \end{aligned}$ | $\begin{aligned} & 9 \leq d \leq 18 \mathrm{~mm} \\ & 0.35^{\prime \prime} \leq d \leq 0.39^{\prime \prime} \end{aligned}$ | HILTI X-ST-GR M8 |


| - | CLIENT | DRAWING TITLE |  | $\begin{aligned} & \text { SCALE } \\ & \text { N.T.S } \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| PROJECT |  | DRAWING NUMBER | SHEET | $\begin{aligned} & \text { ReVIIION } \\ & 0 \end{aligned}$ | A4 |

## FRONT VIEW

BILL OF MATERIAL

| Item | Part Number | Description | Qty | t | d |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 1 | 369685 | Channel End Cap MQZ-E41 | 2 |  |  |
| 2 | 369591 | I-Channel MQ-41/3 6m | 1 |  |  |
| 3 | 369611 | Bracket MQK-41/600 | 1 |  |  |
| 4 | 369640 | Channel TIE MQV-3/2 D | 1 |  |  |
| 5 | 2184850 | Push Button MQN | 4 |  |  |
| 6.1 | $2194340 /$ | X-BT MR M10/W10/15 SN 8 | 2 | $2 \leq \mathrm{t} \leq 15 \mathrm{~mm}$ | $13 \leq \mathrm{d} \leq 18 \mathrm{~mm}$ |
|  | 2194341 | (A4 SS Flange Nut included) | 2 | $0.08 " \leq \mathrm{t} \leq 0.59 "$ |  |
| 6.2 | $2083549 /$ | X-BT MF M10/W10/10 SN 4 | 2 | $2 \leq \mathrm{t} \leq 10 \mathrm{~mm}$ |  |
|  | 2083620 | (FRP Flange Nut included) | 2 | $0.08^{\prime \prime} \leq \mathrm{t} \leq 0.39^{\prime \prime}$ | $18 \leq \mathrm{d} \leq 22 \mathrm{~mm}$ |
| 6.3 | $2140740 /$ | S-BT MR M10/W10/10 SN 6 | 2 | $1.6 \leq \mathrm{t} \leq 15 \mathrm{~mm}$ | (use washer |
|  | 2140741 | (A4 SS Flange Nut included) | 2 | $1 / 16^{\prime \prime} \leq \mathrm{t} \leq 0.59 "$ | with flange nut) |
| 6.4 | $2140528 /$ | S-BT MF M10/W10/10 AN 6 | 2 | $1.6 \leq \mathrm{t} \leq 15 \mathrm{~mm}$ |  |
|  | 2139173 | (FRP Flange Nut included) | 2 | $1 / 16^{\prime \prime} \leq \mathrm{t} \leq 0.59 "$ |  |
| 6.5 | 2122460 | X-ST-GR M8/10 P8 | 2 | $\mathrm{t} \leq 10 \mathrm{~mm}$ | $9 \leq \mathrm{d} \leq 18 \mathrm{~mm}$ |
|  | 2184481 | Flat Washer 10,5/20x5x20x2 | 2 | $\mathrm{t} \leq 0.39 "$ | $0.35 " \leq \mathrm{d} \leq 0.39 "$ |
|  | 52460 | Hexagon Nut M8 A4-70 | 2 |  |  |

HILTI S-BT-MR/MF M10/W10

HILTI X-ST-GR M8

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| - | CLIENT | DRAWING TITLE |  | $\begin{aligned} & \text { SCALE } \\ & \text { N.T.S } \end{aligned}$ |  |
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| PROJECT |  | DRAWING NUMBER | SHEET | $\begin{aligned} & \text { ReVIIION } \\ & 0 \end{aligned}$ | A4 |

## FRONT VIEW

## DETAILS VIEW

| FRONT VIEW DE |  |  |  |  |  | TAILS VIEW |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BILL OF MATERIAL |  |  |  |  |  | HILTI X-BT-MR M10/W10 |  |  |
| Item | Part Number | Description | Qty | t | d |  |  |  |
| 1 | 369685 | Channel End Cap MQZ-E41 | 2 |  |  |  |  |  |
| 2 | 369591 | I-Channel MQ-41/3 6m | 1 |  |  |  |  |  |
| 3 | 369611 | Bracket MQK-41/600 | 1 |  |  |  |  |  |
| 4 | 369640 | Channel TIE MQV-3/2 D | 1 |  |  |  | TI X-BT-MF M | M10/W10 |
| 5 | 2184850 | Push Button MQN | 4 |  |  | HILTI |  |  |
| 6.1 | $\begin{aligned} & 2194340 / \\ & 2194341 \end{aligned}$ | X-BT MR M10/W10/15 SN 8 (A4 SS Flange Nut Included) | $\begin{aligned} & 2 \\ & 2 \\ & 2 \end{aligned}$ | $\begin{aligned} & 2 \leq t \leq 15 \mathrm{~mm} \\ & 0.08^{\prime \prime} \leq t \leq 0.59^{\prime \prime} \end{aligned}$ | $\begin{aligned} & 13 \leq d \leq 18 \mathrm{~mm} \\ & 1 / 2^{\prime \prime} \leq d \leq 3 / 4^{\prime \prime} \end{aligned}$ <br> $18<d \leq 22 \mathrm{~mm}$ (use washer with flange nut) |  |  |  |
| 6.2 | $\begin{aligned} & 2083549 / \\ & 2083620 \end{aligned}$ | X-BT MF M10/W10/10 SN 4 (FRP Flange Nut Included) | $\begin{aligned} & 2 \\ & 2 \\ & 2 \\ & \hline \end{aligned}$ | $\begin{aligned} & 2 \leq t \leq 10 \mathrm{~mm} \\ & 0.08^{\prime \prime} \leq t \leq 0.39^{\prime \prime} \end{aligned}$ |  |  | S-BT-MR/MF | M10/W10 |
| 6.3 | $\begin{aligned} & 2140740 / \\ & 2140741 \\ & \hline \end{aligned}$ | S-BT MR M10/W10/10 SN 6 (A4 SS Flange Nut Included) | $\begin{aligned} & 2 \\ & 2 \\ & 2 \\ & \hline \end{aligned}$ | $\begin{aligned} & 1.6 \leq \mathrm{t} \leq 15 \mathrm{~mm} \\ & 1 / 16^{\prime \prime} \leq \mathrm{t} \leq 0.59^{\prime \prime} \end{aligned}$ |  |  | HILTI X-ST-GR M8 |  |
| 6.4 | $\begin{aligned} & 2140528 / \\ & 2139173 \end{aligned}$ | S-BT MF M10/W10/10 AN 6 (FRP Flange Nut Included) | $\begin{aligned} & 2 \\ & 2 \\ & \hline \end{aligned}$ | $\begin{aligned} & 1.6 \leq t \leq 15 \mathrm{~mm} \\ & 1 / 16^{\prime \prime} \leq t \leq 0.59^{\prime \prime} \end{aligned}$ |  |  |  |  |
| 6.5 | $\begin{aligned} & 2122460 \\ & 2184481 \\ & 52460 \end{aligned}$ | X-ST-GR M8/10 P8 Washer 10,5×20x2 ISO 7089 Hexagon Nut M8 A4-70 | 2 <br> 2 <br> 2 | $\begin{aligned} & \mathrm{t} \leq 10 \mathrm{~mm} \\ & \mathrm{t} \leq 0.39^{\prime \prime} \end{aligned}$ | $\begin{aligned} & 9 \leq d \leq 18 \mathrm{~mm} \\ & 0.35^{\prime \prime} \leq d \leq 0.39^{\prime \prime} \end{aligned}$ |  |  |  |

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| [ | CLIENT | DRAWING TITLE |  | $\begin{aligned} & \hline \text { SCALE } \\ & \text { N.T.S } \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| PROJECT |  | DRAWING NUMBER | SHEET | $\begin{aligned} & \text { REVIIION } \\ & 0 \end{aligned}$ | A4 |

BILL OF MATERIAL FRONT VIEW DETAILS VIEW

HILTI X-BT-MR M10/W10

| Item | Part Number | Description | Qty | t | d | HILTI X-BT-MF M10/W10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 369685 | Channel End Cap MQZ-E41 | 2 |  |  |  |
| 2 | 369612 | Bracket MQK-41/3/1000 | 2 |  |  |  |
| 3 | 369591 | I-Channel MQ-41/3 6m | 1 |  |  |  |
| 4 | 369658 | 4-Hole Angle MQW-4 | 2 |  |  |  |
| 5 | 2194850 | Push Button MQN | 4 |  |  |  |
| 6.1 | $\begin{aligned} & 2194340 / \\ & 2194341 \end{aligned}$ | X-BT MR M10/W10/15 SN 8 (A4 SS Flange Nut Included) | 4 | $\begin{aligned} & 2 \leq t \leq 15 \mathrm{~mm} \\ & 0.08^{\prime \prime} \leq \mathrm{t} \leq 0.59 " \end{aligned}$ | $\begin{aligned} & 13 \leq \mathrm{d} \leq 18 \mathrm{~mm} \\ & 1 / 2^{\prime \prime} \leq \mathrm{d} \leq 3 / 4^{\prime \prime} \\ & \\ & 18<\mathrm{d} \leq 22 \mathrm{~mm} \\ & \text { (use washer } \\ & \text { with flange nut) } \end{aligned}$ |  |
| 6.2 | $\begin{aligned} & 2083549 / \\ & 2083620 \end{aligned}$ | X-BT MF M10/W10/10 SN 4 <br> (FRP Flange Nut Included) | 4 | $\begin{aligned} & 2 \leq t \leq 10 \mathrm{~mm} \\ & 0.08^{\prime \prime} \leq \mathrm{t} \leq 0.39 " \end{aligned}$ |  | HILTI X-ST-GR M8 |
| 6.3 | $\begin{aligned} & 2140740 / \\ & 2140741 \end{aligned}$ | S-BT MR M10/W10/10 SN 6 (A4 SS Flange Nut Included) | 4 | $\begin{aligned} & 1.6 \leq \mathrm{t} \leq 15 \mathrm{~mm} \\ & 1 / 16^{\prime \prime} \leq \mathrm{t} \leq 0.59^{\prime \prime} \end{aligned}$ |  |  |
| 6.4 | $\begin{aligned} & 2140528 / \\ & 2139173 \\ & \hline \end{aligned}$ | S-BT MF M10/W10/10 AN 6 (FRP Flange Nut Included) | 4 | $\begin{aligned} & 1.6 \leq \mathrm{t} \leq 15 \mathrm{~mm} \\ & 1 / 16^{\prime \prime} \leq \mathrm{t} \leq 0.59^{\prime \prime} \end{aligned}$ |  |  |
| 6.5 | $\begin{aligned} & 2122460 \\ & 2184481 \\ & 52460 \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { X-ST-GR M8/10 P8 } \\ & \text { Washer 10,5x20x2 ISO } 7089 \\ & \text { Hexagon Nut M8 A4-70 } \\ & \hline \hline \end{aligned}$ | 4 | $\begin{aligned} & \mathrm{t} \leq 10 \mathrm{~mm} \\ & \mathrm{t} \leq 0.39^{\prime \prime} \end{aligned}$ | $\begin{aligned} & 9 \leq d \leq 18 \mathrm{~mm} \\ & 0.35^{\prime \prime} \leq \mathrm{d} \leq 0.39^{\prime \prime} \end{aligned}$ |  |

[^1] building/construction legislation, must be observed as seen fit at onesomn responsibility. Hilti Asia IT Service | E\&l PMO | Level 4 | Tower 3 | BrunsfieldOasis | No. 2 JalanPJU 1A/7A | Oasis Square | Oasis Damansara | 47301 | Petaling Jaya | Selangor | Malaysio |

| [\| | CLIENT | DRAWING TITLE |  | $\begin{aligned} & \text { SCALE } \\ & \text { N.T.S } \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| PROJECT |  | DRAWING NUMBER | SHEET | $\begin{aligned} & \text { REVIIION } \\ & 0 \end{aligned}$ | $\begin{aligned} & \text { FORMAT } \\ & \hline \text { A4 } \end{aligned}$ |

## DETAILS VIEW

| BILL OF MATERIAL |  |  |  |  |  | HILTI X-BT-MR M10/W10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Item | Part Number | Description | Qty | t | d |  |
| 1 | 369685 | Channel End Cap MQZ-E41 | 2 |  |  |  |
| 2 | 369612 | Bracket MQK-41/3/1000 | 2 |  |  |  |
| 3 | 369591 | I-Channel MQ-41 3m | 1 |  |  |  |
| 4 | 369658 | 4-Hole Angle MQW-4 | 2 |  |  | X-BT-MF M10/W10 |
| 5 | 2194850 | Push Button MQN | 4 |  |  |  |
| 6.1 | $\begin{aligned} & 2194340 / \\ & 2194341 \end{aligned}$ | X-BT MR M10/W10/15 SN 8 (A4 SS Flange Nut Included) | 4 | $\begin{aligned} & 2 \leq \mathrm{t} \leq 15 \mathrm{~mm} \\ & 0.08^{\prime \prime} \leq \mathrm{t} \leq 0.599^{\prime \prime} \end{aligned}$ | $13 \leq \mathrm{d} \leq 18 \mathrm{~mm}$ |  |
| 6.2 | $\begin{aligned} & 2083549 / \\ & 2083620 \\ & \hline \end{aligned}$ | X-BT MF M10/W10/10 SN 4 (FRP Flange Nut Included) | 4 | $\begin{aligned} & 2 \leq \mathrm{t} \leq 10 \mathrm{~mm} \\ & 0.08^{\prime \prime} \leq \mathrm{t} \leq 0.39^{\prime \prime} \end{aligned}$ | $1 / 2 " \leq d \leq 3 / 4^{\prime \prime}$ | HILTI S-BT-MR/MF M10/W10 |
| 6.3 | $\begin{aligned} & 2140740 / \\ & 2140741 \end{aligned}$ | S-BT MR M10/W10/10 SN 6 (A4 SS Flange Nut Included) | 4 | $\begin{aligned} & 1.6 \leq \mathrm{t} \leq 15 \mathrm{~mm} \\ & 1 / 16^{\prime \prime} \leq \mathrm{t} \leq 0.59^{\prime \prime} \end{aligned}$ | $18<d \leq 22 m m$ (use washer |  |
| 6.4 | $\begin{aligned} & 2140528 / \\ & 2139173 \end{aligned}$ | S-BT MF M10/W10/10 AN 6 (FRP Flange Nut Included) | 4 | $\begin{aligned} & 1.6 \leq \mathrm{t} \leq 15 \mathrm{~mm} \\ & 1 / 16^{\prime \prime} \leq \mathrm{t} \leq 0.59^{\prime \prime} \end{aligned}$ | with flange nut) | HILTI X-ST-GR M8 |
| 6.5 | $\begin{aligned} & 2122460 \\ & 2184481 \\ & 52460 \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { X-ST-GR M8/10 P8 } \\ & \text { Washer 10,5x20x2 ISO } 7089 \\ & \text { Hexagon Nut M8 A4-70 } \\ & \hline \hline \end{aligned}$ | 4 | $\begin{aligned} & \mathrm{t} \leq 10 \mathrm{~mm} \\ & \mathrm{t} \leq 0.39 " \end{aligned}$ | $\begin{aligned} & 9 \leq d \leq 18 \mathrm{~mm} \\ & 0.35^{\prime \prime} \leq \mathrm{d} \leq 0.399^{\prime \prime} \end{aligned}$ |  |

[^2] Hilti Asia IT Service | E\&l PMO | Level 4 | Tower 3 | BrunsfieldOasis | No. 2 JalanPJU 1A/7A | Oasis Square | Oasis Damansara | 47301 | Petaling Jaya | Selangor | Malaysio |

| - | CLIENT | DRAWING TITLE |  | $\begin{aligned} & \text { SCALE } \\ & \text { N.T.S } \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| PROJECT |  | DRAWING NUMBER | SHEET | $\begin{aligned} & \text { ReVIIION } \\ & 0 \end{aligned}$ | A4 |

## FRONT VIEW

## DETAILS VIEW

| FRONT VIEW |  |  |  | DETAILS VIEW |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BILL OF MATERIAL |  |  |  |  |  | HILTI X-BT-MR M10/W10 |  |  |
| Item | Part Number | Description | Qty | t | d |  |  |  |
| 1 | 369685 | Channel End Cap MQZ-E41 | 1 |  |  | HILT | I X-BT-MF M10/W10 |  |
| 2 | 369591 | I-Channel MQ-41/3 6m | 1 |  |  |  |  |  |
| 3 | 369611 | Bracket MQK-41/600 | 1 |  |  |  |  |  |
| 4 | 369658 | Angle Bracket MQW-S/2 | 1 |  |  |  |  |  |
| 5 | 2184850 | Push Button MQN | 4 |  |  |  |  |  |
| 6.1 | 2194340/ | X-BT MR M10/W10/15 SN 8 | 2 | $2 \leq t \leq 15 \mathrm{~mm}$ | $\begin{aligned} & 13 \leq d \leq 18 \mathrm{~mm} \\ & 1 / 2^{\prime \prime} \leq d \leq 3 / 4^{\prime \prime} \end{aligned}$ | HILTI | S-BT-MR/MF | M10/W10 |
|  | 2194341 | (A4 SS Flange Nut Included) | 2 | $0.08 " \leq t \leq 0.59 "$ |  |  |  |  |
| 6.2 | 2083549/ | X-BT MF M10/W10/10 SN 4 | 2 | $2 \leq t \leq 10 \mathrm{~mm}$ |  |  |  |  |
|  | 2083620 | (FRP Flange Nut Included) | 2 | $0.08 " \leq t \leq 0.39 "$ |  |  |  |  |
| 6.3 | 2140740/ | S-BT MR M10/W10/10 SN 6 | 2 | $1.6 \leq t \leq 15 \mathrm{~mm}$ | $18<d \leq 22 \mathrm{~mm}$ (use washer with flange nut) | HLLTI X-ST-GR M8 |  |  |
|  | 2140741 | (A4 SS Flange Nut Included) | 2 | $1 / 16$ " $\leq t \leq 0.59 "$ |  |  |  |  |  |  |
| 6.4 | 2140528/ | S-BT MF M10/W10/10 AN 6 | 2 | $1.6 \leq \mathrm{t} \leq 15 \mathrm{~mm}$ |  |  |  |  |  |  |
|  | 2139173 | (FRP Flange Nut Included) | 2 | $1 / 16^{\prime \prime} \leq t \leq 0.59^{\prime \prime}$ |  |  |  |  |  |  |
| 6.5 | 2122460 | X-ST-GR M8/10 P8 | 2 |  |  |  |  |  |  |  |
|  | 2184481 | Washer 10,5×20x2 ISO 7089 | 2 | $\begin{aligned} & t \leq 10 \mathrm{~mm} \\ & \mathrm{t} \leq 0.399^{\prime} \end{aligned}$ | $0.35^{\prime \prime} \leq d \leq 0.39^{\prime \prime}$ |  |  |  |  |  |

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| [\| | CLIENT | DRAWING TITLE |  | $\begin{aligned} & \text { SCALE } \\ & \text { N.T.S } \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| PROJECT |  | DRAWING NUMBER | SHEET | $\begin{aligned} & \text { REVIIION } \\ & 0 \end{aligned}$ | $\begin{aligned} & \text { FORMAT } \\ & \hline \text { A4 } \end{aligned}$ |

FRONT VIEW

| Item | Part Number | Description | Qty | t | d |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 369685 | Channel End Cap MQZ-E41 | 2 |  |  |
| 2 | 369609 | Bracket MQK-41/3/300 | 2 |  |  |
| 3 | 369591 | I-Channel MQ-41/3 6m | 1 |  |  |
| 4 | 369658 | 4-Hole Angle MQW-4 | 2 |  |  |
| 5 | 2194850 | Push Button MQN | 4 |  |  |
| 6.1 | $\begin{aligned} & \hline 2194340 / \\ & 2194341 \\ & \hline \end{aligned}$ | X-BT MR M10/W10/15 SN 8 (A4 SS Flange Nut Included) | 4 | $\begin{aligned} & 2 \leq t \leq 15 \mathrm{~mm} \\ & 0.08^{\prime \prime} \leq t \leq 0.59^{\prime \prime} \end{aligned}$ | $13 \leq \mathrm{d} \leq 18 \mathrm{~mm}$ |
| 6.2 | $\begin{aligned} & \hline 2083549 / \\ & 2083620 \\ & \hline \end{aligned}$ | X-BT MF M10/W10/10 SN 4 <br> (FRP Flange Nut Included) | 4 | $\begin{aligned} & 2 \leq t \leq 10 \mathrm{~mm} \\ & 0.08^{\prime \prime} \leq t \leq 0.39^{\prime \prime} \end{aligned}$ | $1 / 2$ " $\leq d \leq 3 / 4 "$ |
| 6.3 | $\begin{array}{\|l\|} \hline 2140740 / \\ 2140741 \\ \hline \end{array}$ | S-BT MR M10/W10/10 SN 6 (A4 SS Flange Nut Included) | 4 | $\begin{aligned} & 1.6 \leq t \leq 15 \mathrm{~mm} \\ & 1 / 16^{\prime \prime} \leq t \leq 0.59^{\prime \prime} \end{aligned}$ | $18<d \leq 22 \mathrm{~mm}$ <br> (use washer |
| 6.4 | $\begin{array}{\|l\|} \hline 2140528 / \\ 2139173 \end{array}$ | S-BT MF M10/W10/10 AN 6 (FRP Flange Nut Included) | 4 | $\begin{aligned} & 1.6 \leq t \leq 15 \mathrm{~mm} \\ & 1 / 16^{\prime \prime} \leq t \leq 0.59^{\prime \prime} \end{aligned}$ | with flange nut) |
| 6.5 | $\begin{aligned} & 2122460 \\ & 2184481 \\ & 52460 \\ & \hline \end{aligned}$ | X-ST-GR M8/10 P8 Washer 10,5x20x2 ISO 7089 Hexagon Nut M8 A4-70 | 4 | $\begin{aligned} & \mathrm{t} \leq 10 \mathrm{~mm} \\ & \mathrm{t} \leq 0.39^{\prime \prime} \end{aligned}$ | $\begin{aligned} & 9 \leq d \leq 18 \mathrm{~mm} \\ & 0.35^{\prime \prime} \leq d \leq 0.39^{\prime \prime} \end{aligned}$ |

## DETAILS VIEW

HILTI X-BT-MR M10/W10

HILTI X-BT-MF M10/W10

HILTI S-BT-MR/MF M10/W10

HILTI X-ST-GR M8

| [/[.] PMO GLOBAL \& SEA | CLIENT | ${ }^{\text {DRAWING TITLE }}$ |  | N.T.S |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| PROUECT |  | DRAWING NUMEER | SHEET | $\begin{aligned} & \text { REVISION } \\ & 0 \end{aligned}$ | $\begin{aligned} & \text { FORMAT } \\ & \text { A4 } \end{aligned}$ |

## BILL OF MATERIAL

| Item | Part Number | Description | Qty | t | d |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1.1 | $\begin{aligned} & 2194340 / \\ & 2194341 \end{aligned}$ | X-BT MR M10/W10/15 SN 8 (A4 SS Flange Nut Included) | 4 | $\begin{aligned} & 2 \leq \mathrm{t} \leq 15 \mathrm{~mm} \\ & 0.08^{\prime \prime} \leq \mathrm{t} \leq 0.59 " \end{aligned}$ |  |
| 1.2 | $\begin{aligned} & 2083549 / \\ & 2083620 \end{aligned}$ | X-BT MF M10/W10/10 SN 4 (FRP Flange Included) | 4 | $\begin{aligned} & 2 \leq \mathrm{t} \leq 10 \mathrm{~mm} \\ & 0.08^{\prime \prime} \leq \mathrm{t} \leq 0.39 " \end{aligned}$ | $1 / 2 " \leq d \leq 3 / 4 "$ |
| 1.3 | $\begin{aligned} & 2140740 / \\ & 2140741 \end{aligned}$ | S-BT MR M10/W10/10 SN 6 (A4 SS Flange Nut Included) | 4 | $\begin{aligned} & 1.6 \leq t \leq 15 \mathrm{~mm} \\ & 1 / 16 "<t<0.59 " \end{aligned}$ | $18<\mathrm{d} \leq 22 \mathrm{~mm}$ <br> (use washer |
| 1.4 | $\begin{aligned} & 2140528 / \\ & 2139173 \end{aligned}$ | S-BT MF M10/W10/10 AN 6 (FRP Flange Nut Included) | 4 | $\begin{aligned} & 1.6 \leq t \leq 15 \mathrm{~mm} \\ & 1 / 16^{\prime \prime} \leq t \leq 0.59^{\prime \prime} \end{aligned}$ | with flange nut) |
| 1.5 | $\begin{aligned} & 2122460 \\ & 2184481 \\ & 52460 \end{aligned}$ | X-ST-GR M8/10 P8 Flat <br> Washer 10,5x20x2 ISO 7089 <br> Hexagon Nut M8 A4-70 | 4 | $\begin{aligned} & \mathrm{t} \leq 10 \mathrm{~mm} \\ & \mathrm{t} \leq 0.39^{\prime \prime} \end{aligned}$ | $\begin{aligned} & 9 \leq d \leq 18 \mathrm{~mm} \\ & 0.35^{\prime \prime} \leq \mathrm{d} \leq 0.39^{\prime \prime} \end{aligned}$ |

HILTI X-BT-MR M10/W10

HILTI X-BT-MF M10/W10

HILTI S-BT-MR/MF M10/W10

HILTI X-ST-GR M8

| - | CLIENT | DRAWING TITLE |  | $\begin{aligned} & \hline \text { SCALE } \\ & \text { N.T.S } \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| PROJECT |  | DRAWING NUMBER | SHEET | $\begin{aligned} & \text { REVIIION } \\ & 0 \end{aligned}$ | $\begin{aligned} & \text { FORMAT } \\ & \text { A4 } \end{aligned}$ |

## ISOMETRIC VIEW

## FRONT VIEW

## SIDE VIEW

DETAILS VIEW

## BILL OF MATERIAL

| Item | Part Number | Description | Qty | t | d |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1.1 | $\begin{aligned} & 2194340 / \\ & 2194341 \end{aligned}$ | X-BT MR M10/W10/15 SN 8 (A4 SS Flange Nut Included) | 2 | $\begin{aligned} & 2 \leq \mathrm{t} \leq 15 \mathrm{~mm} \\ & 0.08{ }^{\prime \prime} \leq \mathrm{t} \leq 0.59 " \end{aligned}$ | $13 \leq d \leq$ |
| 1.2 | $\begin{aligned} & 2083549 / \\ & 2083620 \end{aligned}$ | X-BT MF M10/W10/10 SN 4 (FRP Flange Nut Included) | 2 | $\begin{aligned} & 2 \leq \mathrm{t} \leq 10 \mathrm{~mm} \\ & 0.08^{\prime \prime} \leq \mathrm{t} \leq 0.39^{\prime \prime} \end{aligned}$ | $1 / 2 " \leq d \leq 3 / 4 "$ |
| 1.3 | $\begin{aligned} & 2140740 / \\ & 2140741 \end{aligned}$ | S-BT MR M10/W10/10 SN 6 (A4 SS Flange Nut Included) | 2 | $\begin{aligned} & 1.6 \leq \mathrm{t} \leq 15 \mathrm{~mm} \\ & 1 / 16^{\prime \prime} \leq \mathrm{t} \leq 0.59^{\prime \prime} \end{aligned}$ | 18 < d $\leq 22 \mathrm{~mm}$ (use washer |
| 1.4 | $\begin{aligned} & \hline 2140528 / \\ & 2139173 \end{aligned}$ | S-BT MF M10/W10/10 AN 6 (FRP Flange Nut Included) | 2 | $\begin{aligned} & 1.6 \leq \mathrm{t} \leq 15 \mathrm{~mm} \\ & 1 / 16^{\prime \prime} \leq \mathrm{t} \leq 0.59^{\prime \prime} \end{aligned}$ | with flange nut) |
| 1.5 | $\begin{aligned} & 2122460 \\ & 2184481 \\ & 52460 \\ & \hline \end{aligned}$ | X-ST-GR M8/10 P8 Flat <br> Washer 10,5x20x2 ISO 7089 <br> Hexagon Nut M8 A4-70 | 2 | $\begin{aligned} & \mathrm{t} \leq 10 \mathrm{~mm} \\ & \mathrm{t} \leq 0.39 " \end{aligned}$ | $\begin{aligned} & 9 \leq d \leq 18 \mathrm{~mm} \\ & 0.35^{\prime \prime} \leq d \leq 0.39^{\prime \prime} \end{aligned}$ |

HILTI X-BT-MR M10/W10

HILTI X-BT-MF M10/W10

HILTI S-BT-MR/MF M10/W10

HILTI X-ST-GR M8

| - | CLIENT | DRAWING TITLE |  | $\begin{aligned} & \hline \text { SCALE } \\ & \text { N.T.S } \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| PROJECT |  | DRAWING NUMBER | SHEET | $\begin{aligned} & \text { REVIIION } \\ & 0 \end{aligned}$ | $\begin{aligned} & \text { FORMAT } \\ & \text { A4 } \end{aligned}$ |

## BILL OF MATERIAL

| Item | Part Number | Description | Qty | t | d | R M10/W |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 432077 | Girder End Cap MIA-EC90 | 1 |  |  |  |
| 2 | 267790 | Bracket MIC-C90-D-750 | 1 |  |  |  |
| 3.1 | $\begin{aligned} & 2194340 / \\ & 2194341 \end{aligned}$ | X-BT MR M10/W10/15 SN 8 (A4 SS Flange Nut Included) | 4 | $\begin{aligned} & 2 \leq t \leq 15 \mathrm{~mm} \\ & 0.08{ }^{\prime \prime} \leq \mathrm{t} \leq 0.59 " \end{aligned}$ |  | HILTI X-BT-MF M10/W10 |
| 3.2 | $\begin{aligned} & 2083549 / \\ & 2083620 \end{aligned}$ | X-BT MF M10/W10/10 SN 4 (FRP Flange Included) | 4 | $\begin{aligned} & 2 \leq t \leq 10 \mathrm{~mm} \\ & 0.08{ }^{\prime \prime} \leq \mathrm{t} \leq 0.39 " \end{aligned}$ | $1 / 2^{\prime \prime} \leq d \leq 3 / 4 "$ |  |
| 3.3 | $\begin{aligned} & 2140740 / \\ & 2140741 \end{aligned}$ | S-BT MR M10/W10/10 SN 6 (A4 SS Flange Nut Included) | 4 | $\begin{aligned} & 1.6 \leq \mathrm{t} \leq 15 \mathrm{~mm} \\ & 1 / 16^{\prime \prime} \leq \mathrm{t} \leq 0.59^{\prime \prime} \end{aligned}$ | $18<d \leq 22 m m$ <br> (use washer | HILTI S-BT-MR/MF M10/W10 |
| 3.4 | $\begin{aligned} & \hline 2140528 / \\ & 2139173 \end{aligned}$ | S-BT MF M10/W10/10 AN 6 (FRP Flange Included) | 4 | $\begin{aligned} & 1.6 \leq t \leq 15 \mathrm{~mm} \\ & 1 / 16^{\prime \prime}<t<0.59 \prime \end{aligned}$ | with flange nut) |  |
| 3.5 | $\begin{aligned} & 2122460 \\ & 2184481 \\ & 52460 \end{aligned}$ | X-ST-GR M8/10 P8 Flat <br> Washer 10,5x20x2 ISO 7089 <br> Hexagon Nut M8 A4-70 | 4 | $\begin{aligned} & \mathrm{t} \leq 10 \mathrm{~mm} \\ & \mathrm{t} \leq 0.39^{\prime \prime} \end{aligned}$ | $\begin{aligned} & 9 \leq d \leq 18 \mathrm{~mm} \\ & 0.35^{\prime \prime} \leq \mathrm{d} \leq 0.39^{\prime \prime} \end{aligned}$ | HILTI X-ST-GR M8 |


| [\| | CLIENT | DRAWING TITLE |  | $\begin{aligned} & \text { SCALE } \\ & \text { N.T.S } \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| PROJECT |  | DRAWING NUMBER | SHEET | $\begin{aligned} & \text { REVIIION } \\ & 0 \end{aligned}$ | $\begin{aligned} & \text { FORMAT } \\ & \hline \text { A4 } \end{aligned}$ |

## ISOMETRIC VIEW

## BILL OF MATERIAL SIDE VIEW DETAILS VIEW

| Item | Part Number | Description | Qty | t | d | HILTI X-BT-MR M10/W10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 432077 | Girder End Cap MIA-EC90 | 1 |  |  |  |
| 2 | 267790 | Bracket MIC-C90-D-750 | 1 |  |  |  |
| 3 | 304799 | Girder MI-90 6m | 1 |  |  |  |
| 4 | 304828 | Connector MIC-U-MA | 1 |  |  |  |
| 5 | 304806 | Connector MIC-CU-MA Concrete | 1 |  |  | HILTI X-BT-MF M10/W10 |
| 6.1 | $\begin{aligned} & 2194340 / \\ & 2194341 \\ & \hline \end{aligned}$ | X-BT MR M10/W10/15 SN 8 (A4 SS Flange Nut Included) | 6 | $\begin{aligned} & 2 \leq \mathrm{t} \leq 15 \mathrm{~mm} \\ & 0.08^{\prime \prime} \leq \mathrm{t} \leq 0.59^{\prime \prime} \end{aligned}$ | $13 \leq d \leq 18 \mathrm{~mm}$ |  |
| 6.2 | $\begin{aligned} & 2083549 / \\ & 2083620 \end{aligned}$ | X-BT MF M10/W10/10 SN 4 (FRP Flange Nut Included) | 6 | $\begin{aligned} & 2 \leq \mathrm{t} \leq 10 \mathrm{~mm} \\ & 0.08^{\prime \prime} \leq \mathrm{t} \leq 0.39 \end{aligned}$ | $1 / 2^{\prime \prime} \leq d \leq 3 / 4 "$ | HILTI S-BT-MR/MF M10/W10 |
| 6.3 | $\begin{aligned} & 2140740 / \\ & 2140741 \end{aligned}$ | S-BT MR M10/W10/10 SN 6 (A4 SS Flange Nut Included) | 6 | $\begin{aligned} & 1.6 \leq t \leq 15 \mathrm{~mm} \\ & 1 / 16^{\prime \prime} \leq t \leq 0.59^{\prime \prime} \end{aligned}$ | 18 < d $\leq 22 \mathrm{~mm}$ (use washer |  |
| 6.4 | $\begin{aligned} & 2140528 / \\ & 2139173 \end{aligned}$ | S-BT MF M10/W10/10 AN 6 (FRP Flange Nut Included) | 6 | $\begin{aligned} & 1.6 \leq \mathrm{t} \leq 15 \mathrm{~mm} \\ & 1 / 16^{\prime \prime} \leq \mathrm{t} \leq 0.59^{\prime \prime} \end{aligned}$ | with flange nut) | HILTI X-ST-GR M8 |
| 6.5 | $\begin{aligned} & 2122460 \\ & 2184481 \\ & 52460 \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { X-ST-GR M8/10 P8 } \\ & \text { Washer 10,5x20x2 ISO } 7089 \\ & \text { Hexagon Nut M8 A4-70 } \\ & \hline \hline \end{aligned}$ | 6 | $\begin{aligned} & \mathrm{t} \leq 10 \mathrm{~mm} \\ & \mathrm{t} \leq 0.39^{\prime \prime} \end{aligned}$ | $\begin{aligned} & 9 \leq d \leq 18 \mathrm{~mm} \\ & 0.35^{\prime \prime} \leq \mathrm{d} \leq 0.39^{\prime \prime} \end{aligned}$ |  |

[^3]
Hilti Asia IT Service | E\&l PMO | Level 4 | Tower 3 | BrunsfieldOasis | No. 2 JalanPJU 1A/7A | Oasis Square | Oasis Damansara | 47301 | Petaling Jaya | Selangor | Malaysio |

| [\| | CLIENT | DRAWING TITLE |  | $\begin{aligned} & \text { SCALE } \\ & \text { N.T.S } \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| PROJECT |  | DRAWING NUMBER | SHEET | $\begin{aligned} & \text { REVIIION } \\ & 0 \end{aligned}$ | $\begin{aligned} & \text { FORMAT } \\ & \hline \text { A4 } \end{aligned}$ |

BILL OF MATERIAL

| Item | Part Number | Description | Qty | t | d | HILTI X-BT-MF M10/W10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 432077 | Girder End Cap MIA-EC90 | 2 |  |  |  |
| 2 | 267790 | Bracket MIC-C90-D-750 | 1 |  |  |  |
| 3 | 304799 | Girder MI-90 6m | 1 |  |  |  |
| 4 | 2179533 | Connector MIC-90-L | 1 |  |  |  |
| 5.1 | $\begin{aligned} & 2194340 / \\ & 2194341 \end{aligned}$ | X-BT MR M10/W10/15 SN 8 (A4 SS Flange Nut Included) | 4 | $\begin{aligned} & 2 \leq t \leq 15 \mathrm{~mm} \\ & 0.08 " \leq t \leq 0.59 " \end{aligned}$ | $\begin{aligned} & 13 \leq \mathrm{d} \leq 18 \mathrm{~mm} \\ & 1 / 2 \mathrm{l} \leq \mathrm{d} \leq 3 / 4^{\prime \prime} \\ & \\ & 18<\mathrm{d} \leq 22 \mathrm{~mm} \\ & \text { (use washer } \\ & \text { with flange nut) } \end{aligned}$ |  |
| 5.2 | $\begin{aligned} & 2083549 / \\ & 2083620 \end{aligned}$ | X-BT MF M10/W10/10 SN 4 <br> (FRP Flange Nut Included) | 4 | $\begin{aligned} & 2 \leq \mathrm{t} \leq 10 \mathrm{~mm} \\ & 0.08^{\prime \prime} \leq \mathrm{t} \leq 0.39 " \end{aligned}$ |  | HILTI S-BT-MR/MF M10/W10 |
| 5.3 | $\begin{aligned} & 2140740 / \\ & 2140741 \end{aligned}$ | S-BT MR M10/W10/10 SN 6 (A4 SS Flange Nut Included) | 4 | $\begin{aligned} & 1.6 \leq t \leq 15 \mathrm{~mm} \\ & 1 / 16^{\prime \prime} \leq t \leq 0.59^{\prime \prime} \end{aligned}$ |  | HILTI X-ST-GR M8 |
| 5.4 | $\begin{aligned} & 2140528 / \\ & 2139173 \end{aligned}$ | S-BT MF M10/W10/10 AN 6 (FRP Flange Nut Included) | 4 | $\begin{aligned} & 1.6 \leq \mathrm{t} \leq 15 \mathrm{~mm} \\ & 1 / 16^{\prime \prime} \leq \mathrm{t} \leq 0.59^{\prime \prime} \end{aligned}$ |  |  |
| 5.5 | $\begin{aligned} & 2122460 \\ & 2184481 \\ & 52460 \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { X-ST-GR M8/10 P8 } \\ & \text { Washer 10,5x20x2 ISO } 7089 \\ & \text { Hexagon Nut M8 A4-70 } \\ & \hline \end{aligned}$ | 4 | $\begin{aligned} & \mathrm{t} \leq 10 \mathrm{~mm} \\ & \mathrm{t} \leq 0.39 " \end{aligned}$ | $\begin{aligned} & 9 \leq d \leq 18 \mathrm{~mm} \\ & 0.35^{\prime \prime} \leq d \leq 0.39^{\prime \prime} \end{aligned}$ |  |

[^4] building/construction legislation, must be observed as seen fit at ones own responsibility Hilti Asia IT Service | E\&l PMO | Level 4 | Tower 3 | BrunsfieldOasis | No. 2 JalanPJU 1A/7A | Oasis Square | Oasis Damansara | 47301 | Petaling Jaya | Selangor | Malaysio |

| [\| | CLIENT | DRAWING TITLE |  | $\begin{aligned} & \text { SCALE } \\ & \text { N.T.S } \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| PROJECT |  | DRAWING NUMBER | SHEET | $\begin{aligned} & \text { REVIIION } \\ & 0 \end{aligned}$ | $\begin{aligned} & \text { FORMAT } \\ & \hline \text { A4 } \end{aligned}$ |

## DETAILS VIEW

HILTI X-BT-MR M10/W10
BILL OF MATERIAL

| Item | Part Number | Description | Qty | t | d | HILTI X-BT-MF M10/W10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 432077 | Girder End Cap MIA-EC90 | 2 |  |  |  |
| 2 | 267791 | Bracket MIC-C90-D-1000 | 2 |  |  |  |
| 3 | 304799 | Girder MI-90 6m | 1 |  |  |  |
| 4 | 2179533 | Connector MIC-90-UH | 2 |  |  |  |
| 5.1 | $\begin{aligned} & 2194340 / \\ & 2194341 \end{aligned}$ | X-BT MR M10/W10/15 SN 8 (A4 SS Flange Nut Included) | 8 | $\begin{aligned} & 2 \leq \mathrm{t} \leq 15 \mathrm{~mm} \\ & 0.08^{\prime \prime} \leq \mathrm{t} \leq 0.59^{\prime \prime} \end{aligned}$ | $\begin{aligned} & 13 \leq d \leq 18 \mathrm{~mm} \\ & 1 / 2 " \leq d \leq 3 / 4^{\prime \prime} \\ & \\ & 18<d \leq 22 \mathrm{~mm} \\ & \text { (use washer } \\ & \text { with flange nut) } \end{aligned}$ |  |
| 5.2 | $\begin{aligned} & 2083549 / \\ & 2083620 \\ & \hline \end{aligned}$ | X-BT MF M10/W10/10 SN 4 <br> (FRP Flange Nut Included) | 8 | $\begin{aligned} & 2 \leq \mathrm{t} \leq 10 \mathrm{~mm} \\ & 0.08^{\prime \prime} \leq \mathrm{t} \leq 0.39^{\prime \prime} \end{aligned}$ |  | HILTI S-BT-MR/MF M10/W10 |
| 5.3 | $\begin{aligned} & \hline 2140740 / \\ & 2140741 \end{aligned}$ | S-BT MR M10/W10/10 SN 6 (A4 SS Flange Nut Included) | 8 | $\begin{aligned} & 1.6 \leq \mathrm{t} \leq 15 \mathrm{~mm} \\ & 1 / 16^{\prime \prime} \leq \mathrm{t} \leq 0.59^{\prime \prime} \end{aligned}$ |  | HILTI X-ST-GR M8 |
| 5.4 | $\begin{aligned} & 2140528 / \\ & 2139173 \end{aligned}$ | S-BT MF M10/W10/10 AN 6 (FRP Flange Nut Included) | 8 | $\begin{aligned} & 1.6 \leq \mathrm{t} \leq 15 \mathrm{~mm} \\ & 1 / 16^{\prime \prime} \leq \mathrm{t} \leq 0.59^{\prime \prime} \end{aligned}$ |  |  |
| 5.5 | $\begin{aligned} & 2122460 \\ & 2184481 \\ & 52460 \\ & \hline \hline \end{aligned}$ | $\begin{aligned} & \text { X-ST-GR M8/10 P8 } \\ & \text { Washer 10,5x20x2 ISO } 7089 \\ & \text { Hexagon Nut M8 A4-70 } \\ & \hline \end{aligned}$ | 8 | $\begin{aligned} & \mathrm{t} \leq 10 \mathrm{~mm} \\ & \mathrm{t} \leq 0.39 " \end{aligned}$ | $\begin{aligned} & 9 \leq d \leq 18 \mathrm{~mm} \\ & 0.35^{\prime \prime} \leq d \leq 0.39^{\prime \prime} \end{aligned}$ |  |

[^5] building/construction le gislation, must be observed as se en fit at ones own responsibility Hilti Asia IT Service | E\&l PMO | Level 4 | Tower 3 | BrunsfieldOasis | No. 2 JalanPJU 1A/7A | Oasis Square | Oasis Damansara | 47301 | Petaling Jaya | Selangor | Malaysio |

| [ | CLIENT | DRAWING TITLE |  | $\begin{aligned} & \hline \text { SCALE } \\ & \text { N.T.S } \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| PROJECT |  | DRAWING NUMBER | SHEET | $\begin{aligned} & \text { REVIIION } \\ & 0 \end{aligned}$ | A4 |

## DETAILS VIEW

HILTI X-BT-MR M10/W10
BILL OF MATERIAL

| Item | Part Number | Description | Qty | t | d | HILTI X-BT-MF M10/W10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 432077 | Girder End Cap MIA-EC90 | 2 |  |  |  |
| 2 | 267791 | Bracket MIC-C90-D-1000 | 2 |  |  |  |
| 3 | 304799 | Girder MI-90 6m | 1 |  |  |  |
| 4 | 2179533 | Connector MIC-90-UH | 2 |  |  |  |
| 5.1 | $\begin{aligned} & 2194340 / \\ & 2194341 \end{aligned}$ | X-BT MR M10/W10/15 SN 8 (A4 SS Flange Nut Included) | 8 | $\begin{aligned} & 2 \leq \mathrm{t} \leq 15 \mathrm{~mm} \\ & 0.08^{\prime \prime} \leq \mathrm{t} \leq 0.59^{\prime \prime} \end{aligned}$ | $\begin{aligned} & 13 \leq d \leq 18 \mathrm{~mm} \\ & 1 / 2 " \leq d \leq 3 / 4^{\prime \prime} \\ & \\ & 18<d \leq 22 \mathrm{~mm} \\ & \text { (use washer } \\ & \text { with flange nut) } \end{aligned}$ |  |
| 5.2 | $\begin{aligned} & 2083549 / \\ & 2083620 \\ & \hline \end{aligned}$ | X-BT MF M10/W10/10 SN 4 <br> (FRP Flange Nut Included) | 8 | $\begin{aligned} & 2 \leq \mathrm{t} \leq 10 \mathrm{~mm} \\ & 0.08^{\prime \prime} \leq \mathrm{t} \leq 0.39^{\prime \prime} \end{aligned}$ |  | HILTI S-BT-MR/MF M10/W10 |
| 5.3 | $\begin{aligned} & \hline 2140740 / \\ & 2140741 \end{aligned}$ | S-BT MR M10/W10/10 SN 6 (A4 SS Flange Nut Included) | 8 | $\begin{aligned} & 1.6 \leq \mathrm{t} \leq 15 \mathrm{~mm} \\ & 1 / 16^{\prime \prime} \leq \mathrm{t} \leq 0.59^{\prime \prime} \end{aligned}$ |  | HILTI X-ST-GR M8 |
| 5.4 | $\begin{aligned} & 2140528 / \\ & 2139173 \end{aligned}$ | S-BT MF M10/W10/10 AN 6 (FRP Flange Nut Included) | 8 | $\begin{aligned} & 1.6 \leq \mathrm{t} \leq 15 \mathrm{~mm} \\ & 1 / 16^{\prime \prime} \leq \mathrm{t} \leq 0.59^{\prime \prime} \end{aligned}$ |  |  |
| 5.5 | $\begin{aligned} & 2122460 \\ & 2184481 \\ & 52460 \\ & \hline \hline \end{aligned}$ | $\begin{aligned} & \text { X-ST-GR M8/10 P8 } \\ & \text { Washer 10,5x20x2 ISO } 7089 \\ & \text { Hexagon Nut M8 A4-70 } \\ & \hline \end{aligned}$ | 8 | $\begin{aligned} & \mathrm{t} \leq 10 \mathrm{~mm} \\ & \mathrm{t} \leq 0.39 " \end{aligned}$ | $\begin{aligned} & 9 \leq d \leq 18 \mathrm{~mm} \\ & 0.35^{\prime \prime} \leq \mathrm{d} \leq 0.39^{\prime \prime} \end{aligned}$ |  |

[^6] building/construction legislation, must be observed as se en fit at onesomn responsibility Hilti Asia IT Service | E\&l PMO | Level 4 | Tower 3 | BrunsfieldOasis | No. 2 JalanPJU 1A/7A | Oasis Square | Oasis Damansara | 47301 | Petaling Jaya | Selangor | Malaysio |

| [ | CLIENT | DRAWING TITLE |  | $\begin{aligned} & \hline \text { SCALE } \\ & \text { N.T.S } \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| PROJECT |  | DRAWING NUMBER | SHEET | $\begin{aligned} & \text { REVIIION } \\ & 0 \end{aligned}$ | A4 |

## BILL OF MATERIAL

| Item | Part Number | Description | Qty | t | d | HILTI X-BT-MF M10/W10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 432077 | Girder End Cap MIA-EC90 | 2 |  |  |  |
| 2 | 304799 | Girder MI-90 6m | 1 |  |  |  |
| 3 | 267791 | Bracket MIC-C90-D-1000 | 1 |  |  |  |
| 4 | 304805 | Connector MIC-90-L | 1 |  |  |  |
| 5.1 | $\begin{aligned} & 2194340 / \\ & 2194341 \\ & \hline \end{aligned}$ | X-BT MR M10/W10/15 SN 8 (A4 SS Flange Nut Included) | 4 | $\begin{aligned} & 2 \leq \mathrm{t} \leq 15 \mathrm{~mm} \\ & 0.08^{\prime \prime} \leq \mathrm{t} \leq 0.59^{\prime \prime} \end{aligned}$ | $\begin{aligned} & 13 \leq d \leq 18 \mathrm{~mm} \\ & 1 / 2^{\prime \prime} \leq \mathrm{d} \leq 3 / 4^{\prime \prime} \\ & \\ & 18<\mathrm{d} \leq 22 \mathrm{~mm} \\ & \text { (use washer } \\ & \text { with flange nut) } \end{aligned}$ |  |
| 5.2 | $\begin{aligned} & 2083549 / \\ & 2083620 \\ & \hline \end{aligned}$ | X-BT MF M10/W10/10 SN 4 <br> (FRP Flange Nut Included) | 4 | $\begin{aligned} & 2 \leq t \leq 10 \mathrm{~mm} \\ & 0.08^{\prime \prime} \leq \mathrm{t} \leq 0.39^{\prime \prime} \end{aligned}$ |  | HILTI S-BT-MR/MF M10/W10 |
| 5.3 | $\begin{aligned} & 2140740 / \\ & 2140741 \end{aligned}$ | S-BT MR M10/W10/10 SN 6 (A4 SS Flange Nut Included) | 4 | $\begin{aligned} & 1.6 \leq \mathrm{t} \leq 15 \mathrm{~mm} \\ & 1 / 16^{\prime \prime} \leq \mathrm{t} \leq 0.59^{\prime \prime} \end{aligned}$ |  | HILTI X-ST-GR M8 |
| 5.4 | $\begin{aligned} & 2140528 / \\ & 2139173 \end{aligned}$ | S-BT MF M10/W10/10 AN 6 (FRP Flange Nut Included) | 4 | $\begin{aligned} & 1.6 \leq \mathrm{t} \leq 15 \mathrm{~mm} \\ & 1 / 16^{\prime \prime} \leq \mathrm{t} \leq 0.59^{\prime \prime} \end{aligned}$ |  |  |
| 5.5 | $\begin{aligned} & 2122460 \\ & 2184481 \\ & 52460 \\ & \hline \end{aligned}$ | X-ST-GR M8/10 P8 Washer 10,5x20x2 ISO 7089 Hexagon Nut M8 A4-70 | 4 | $\begin{aligned} & \mathrm{t} \leq 10 \mathrm{~mm} \\ & \mathrm{t} \leq 0.39 " \end{aligned}$ | $\begin{aligned} & 9 \leq d \leq 18 \mathrm{~mm} \\ & 0.35^{\prime \prime} \leq \mathrm{d} \leq 0.39^{\prime \prime} \end{aligned}$ |  |


| [ | CLIENT | DRAWING TITLE |  | $\begin{aligned} & \hline \text { SCALE } \\ & \text { N.T.S } \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| PROJECT |  | DRAWING NUMBER | SHEET | $\begin{aligned} & \text { REVIIION } \\ & 0 \end{aligned}$ | A4 |

## DETAILS VIEW

HILTI X-BT-MR M10/W10
BILL OF MATERIAL

| Item | Part Number | Description | Qty | t | d | HILTI X-BT-MF M10/W10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 432077 | Girder End Cap MIA-EC90 | 2 |  |  |  |
| 2 | 304799 | Girder MI-90 6m | 1 |  |  |  |
| 3 | 267791 | Bracket MIC-C90-D-1000 | 1 |  |  |  |
| 4 | 304805 | Connector MIC-90-L | 1 |  |  |  |
| 5.1 | $\begin{aligned} & 2194340 / \\ & 2194341 \end{aligned}$ | X-BT MR M10/W10/15 SN 8 (A4 SS Flange Nut Included) | 4 | $\begin{aligned} & 2 \leq \mathrm{t} \leq 15 \mathrm{~mm} \\ & 0.08^{\prime \prime} \leq \mathrm{t} \leq 0.59 \end{aligned}$ | $\begin{aligned} & 13 \leq d \leq 18 \mathrm{~mm} \\ & 1 / 2 \mathrm{l} \leq \mathrm{d} \leq 3 / 4^{\prime \prime} \\ & \\ & 18<\mathrm{d} \leq 22 \mathrm{~mm} \\ & \text { (use washer } \\ & \text { with flange nut) } \end{aligned}$ |  |
| 5.2 | $\begin{aligned} & 2083549 / \\ & 2083620 \\ & \hline \end{aligned}$ | X-BT MF M10/W10/10 SN 4 <br> (FRP Flange Nut Included) | 4 | $\begin{aligned} & 2 \leq \mathrm{t} \leq 10 \mathrm{~mm} \\ & 0.08^{\prime \prime} \leq \mathrm{t} \leq 0.39^{\prime \prime} \end{aligned}$ |  | HILTI S-BT-MR/MF M10/W10 |
| 5.3 | $\begin{aligned} & \hline 2140740 / \\ & 2140741 \end{aligned}$ | S-BT MR M10/W10/10 SN 6 (A4 SS Flange Nut Included) | 4 | $\begin{aligned} & 1.6 \leq \mathrm{t} \leq 15 \mathrm{~mm} \\ & 1 / 16^{\prime \prime} \leq \mathrm{t} \leq 0.59^{\prime \prime} \end{aligned}$ |  | HILTI X-ST-GR M8 |
| 5.4 | $\begin{aligned} & 2140528 / \\ & 2139173 \end{aligned}$ | S-BT MF M10/W10/10 AN 6 (FRP Flange Nut Included) | 4 | $\begin{aligned} & 1.6 \leq \mathrm{t} \leq 15 \mathrm{~mm} \\ & 1 / 16^{\prime \prime} \leq \mathrm{t} \leq 0.59^{\prime \prime} \end{aligned}$ |  |  |
| 5.5 | $\begin{aligned} & 2122460 \\ & 2184481 \\ & 52460 \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { X-ST-GR M8/10 P8 } \\ & \text { Washer 10,5x20x2 ISO } 7089 \\ & \text { Hexagon Nut M8 A4-70 } \\ & \hline \end{aligned}$ | 4 | $\begin{aligned} & \mathrm{t} \leq 10 \mathrm{~mm} \\ & \mathrm{t} \leq 0.39 " \end{aligned}$ | $\begin{aligned} & 9 \leq d \leq 18 \mathrm{~mm} \\ & 0.35^{\prime \prime} \leq \mathrm{d} \leq 0.39^{\prime \prime} \end{aligned}$ |  |

[^7] Hilti Asia IT Service | E\&l PMO | Level 4 | Tower 3 | BrunsfieldOasis | No. 2 JalanPJU 1A/7A | Oasis Square | Oasis Damansara | 47301 | Petaling Jaya | Selangor | Malaysio |


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