

## Flex-Rail® Installation Checklist

Item	Y	N
Assembly and installation is to be generally in accordance with Waka Kotahi NZ Transport Agency Specification M23, AS/NZS 3845.1:2015 and CSP® drawing FX360 and/or the Engineers specification.		
The rail height (top) is in accordance with the plans (706mm above the edge of the shoulder or the ground line).		
Correct lapping of the rail should be away from the direction of traffic to prevent snagging.		
Timber blockouts should be nailed to timber post to prevent rotation.		
Installation is aligned and level.		
Posts are aligned at correct spacing and backfill compacted.		
Post bolts are tight and a 50 x 50 square washer is fitted to back of post.		
<b>Steel Post Systems (Post Type FX91, FX92, FX93 &amp; FX94)</b>		
Backing pieces to be fitted at the intermediate post only.		
Post coach bolts are finger tight and then locked with a lock nut.		
Necked bolts are installed with washer as specified and are installed tight.		

Project/Job Number:			
Location:			
Client/Asset Owner:			
Principal Contractor:			
Installer:			
Installed by:		Date	
Inspected by:		Date	

## Sentry Barrier™ Installation Checklist

Item	Y	N
Ensure the posts are orientated in the correct direction and consistent with the terminal ends or crash cushions.		
The height of the finished rail should be 800 mm ( $\pm 25$ mm) above the finished ground level.		
The height to the top of the posts should be 790 mm ( $\pm 25$ mm) above finished ground level.		
The posts are free from damage.		
The correct Sentry Barrier™ Washer is installed and seated correctly in the back of the post.		
All bolts are tightened snug.		
The W-Beam must be level and aligned to the terminal end or crash cushion in accordance with transition drawings. Refer to Appendix F of the Sentry Barrier™ Product and Installation Manual for guidance.		
Ensure posts are free of debris prior to installing the W-Beam.		
The top edge of the W-Beam must align, both vertically and horizontally, between the Sentry Barrier™ and the nominated terminal end in accordance with transition drawings. Refer to Appendix F of the Sentry Barrier™ Product and Installation Manual.		

Project/Job Number:			
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Inspected by:		Date	

## Nu-Guard® 31 Steel Guardrail Installation Checklist

Item	Y	N
Height to centre of rail is 635mm.		
Height to the top of the post is 780mm.		
Top of post is just below the top edge of the rail, it does not protrude above the rail.		
There is no blockout.		
When driving post, use a driving cap with timber or plastic insert to avoid damage to the post.		
Post is aligned with flanges rail (for road side applications) and alternating between flanges forward and back for median applications.		
There is a 90mm dia. washer between rail and post. Position of M16 x 90mm post bolt in post slot may vary. It is not located in the bottom of the slot.		
Rail is lapped in the direction of traffic.		
All bolts are fully tightened.		
Nut on backside of post is a splice nut.		
If a median installation-excessive bolt length is cut off on backside.		
Transition details to existing guardrail or terminations are correct.		

Project/Job Number:			
Location:			
Client/Asset Owner:			
Principal Contractor:			
Installer:			
Installed by:		Date	
Inspected by:		Date	