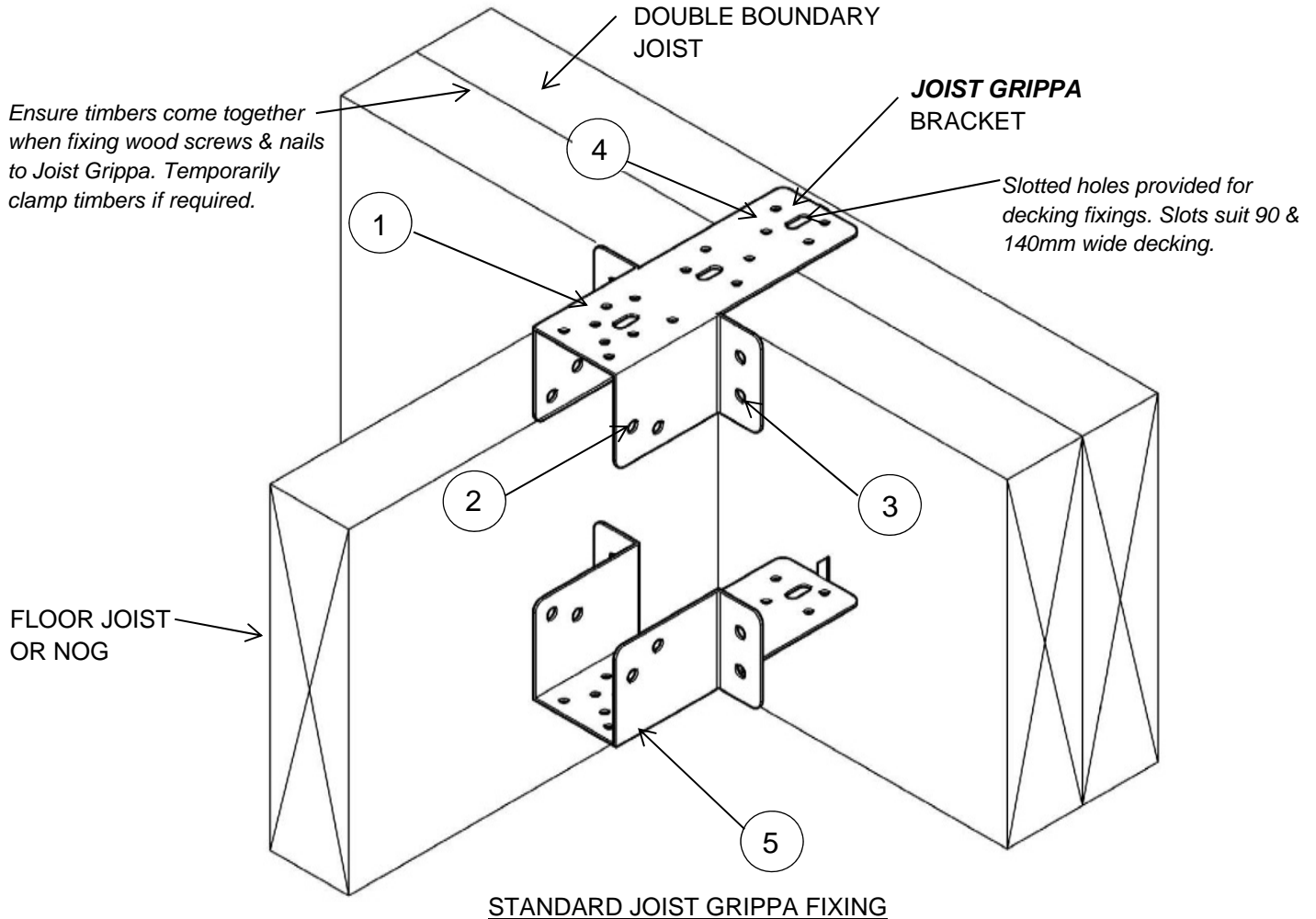


INSTALLATION PROCEDURE

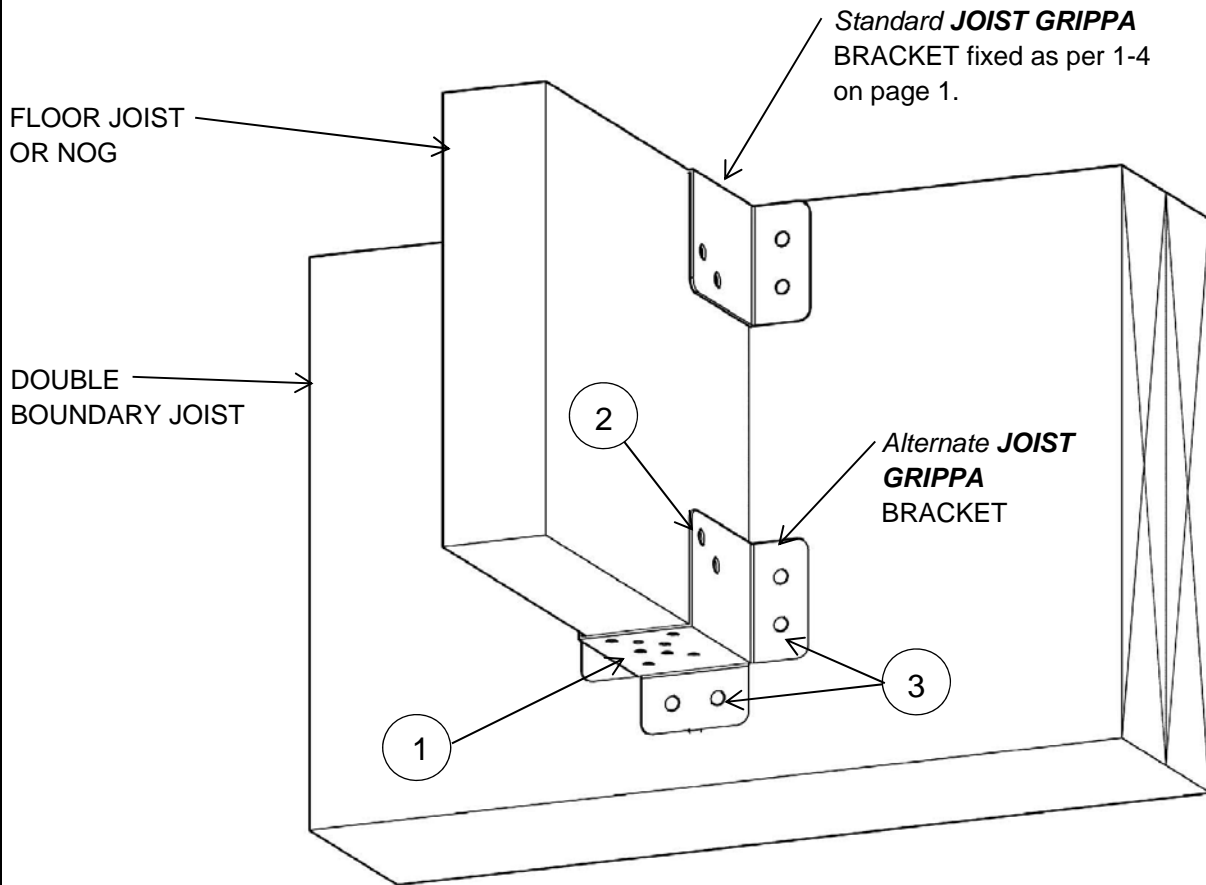
Issue date August 2019

THE PURPOSE OF THE JOIST GRIPPA BRACKET IS TO REPLACE THE M12 COACH SCREWS & 6kN STRAPS DETAILED IN NZS3604 FIGURES 7.10(b) & 7.10(c) FOR TIMBER FRAMED DECKS.



NAIL FIX BOUNDARY JOISTS TO FLOOR JOISTS TO SET THE FLOOR FRAMING TOGETHER. THE METHOD BELOW IS REQUIRED TO SECURE A TIGHT CONNECTION BETWEEN THE JOIST AND DOUBLE BOUNDARY JOISTS.

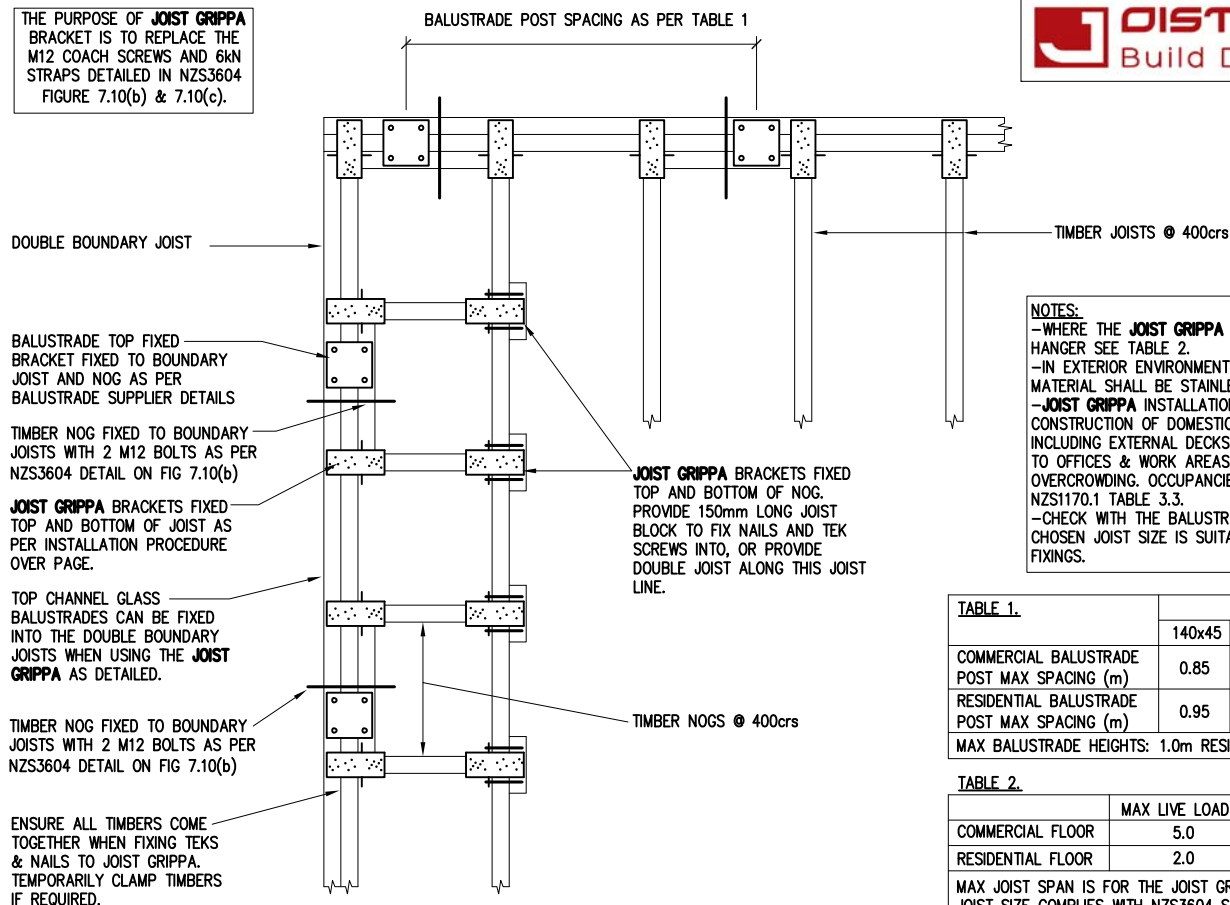
1. PLACE THE **JOIST GRIPPA** OVER THE JOIST AND BOUNDARY JOIST AND NAIL 8 x $\Phi 3.15$ x 30mm LONG NAILS THROUGH HOLES INTO THE JOIST.
 2. INSERT 2 x 14g x 35mm LONG TYPE 17 WOOD SCREWS EITHER SIDE OF THE **JOIST GRIPPA** INTO THE SIDE OF THE JOIST. SCREW TIGHT & DO NOT SPIN SCREW IN TIMBER.
 3. INSERT 2 x 14g x 75mm LONG TYPE 17 WOOD SCREWS IN ALL FLANGES OF THE **JOIST GRIPPA** INTO THE BOUNDARY JOISTS. SCREW TIGHT & DO NOT SPIN SCREW IN TIMBER.
 4. NAIL 8 x $\Phi 3.15$ x 30mm LONG NAILS THROUGH HOLES INTO THE BOUNDARY JOISTS.
 5. REPEAT STEPS 1 – 4 ABOVE FOR THE BOTTOM **JOIST GRIPPA**. (or see over page for alternate bottom bracket.)
- IN EXTERIOR ENVIRONMENTS ALL FIXINGS SHALL BE STAINLESS STEEL GRADE 316 AND JOIST GRIPPA MATERIAL STAINLESS STEEL GRADE 304.
 - ALL TIMBER SHALL BE SG8 GRADE OR HIGHER WITH TIMBER TREATMENT AS PER NZS 3604.
 - AVOID PLACING NAILS AND WOOD SCREWS INTO KNOTTED TIMBER. RELOCATE JOIST IF POSSIBLE.
 - SEE **JOIST GRIPPA** FIXING PLAN OVER PAGE FOR ARRANGEMENT OF JOISTS AND NOGS AND SPACING REQUIREMENTS FOR BALUSTRADE POSTS FOR VARIOUS JOIST SIZES.
 - ENSURE THAT THE BALUSTRADE POST IS FIXED TO THE BOUNDARY JOISTS AS PER THE SUPPLIER DETAILS AND THAT THE BALUSTRADE IS ABLE TO BE FIXED INTO THE SPECIFIED JOIST SIZE.



ALTERNATE JOIST GRIPPA FIXING

- ALTERNATE JOIST GRIPPA FIXING BRACKET USED WHERE THE JOIST DEPTH IS SMALLER THAN THE DOUBLE BOUNDARY JOIST.
- ALTERNATE JOIST GRIPPA SHALL ONLY BE USED ON THE BOTTOM OF THE JOIST.
- SEE PAGE 1 FOR INSTALLATION PROCEDURE 1 – 3 AND FURTHER NOTES ON BRACKET FIXING.

THE PURPOSE OF **JOIST GRIPPA** BRACKET IS TO REPLACE THE M12 COACH SCREWS AND 6KN STRAPS DETAILED IN NZS3604 FIGURE 7.10(b) & 7.10(c).



NOTES:
-WHERE THE **JOIST GRIPPA** IS USED AS A JOIST HANGER SEE TABLE 2.
-IN EXTERIOR ENVIRONMENTS THE **JOIST GRIPPA** MATERIAL SHALL BE STAINLESS STEEL 304.
-**JOIST GRIPPA** INSTALLATION APPLIES TO BALUSTRADE CONSTRUCTION OF DOMESTIC & RESIDENTIAL BUILDINGS INCLUDING EXTERNAL DECKS & INTERNAL AREAS AND TO OFFICES & WORK AREAS NOT SUSCEPTIBLE TO OVERCROWDING. OCCUPANCIES A, B, C3 & E IN NZS1170.1 TABLE 3.3.
-CHECK WITH THE BALUSTRADE SUPPLIER THAT THE CHOSEN JOIST SIZE IS SUITABLE FOR THE BALUSTRADE FIXINGS.

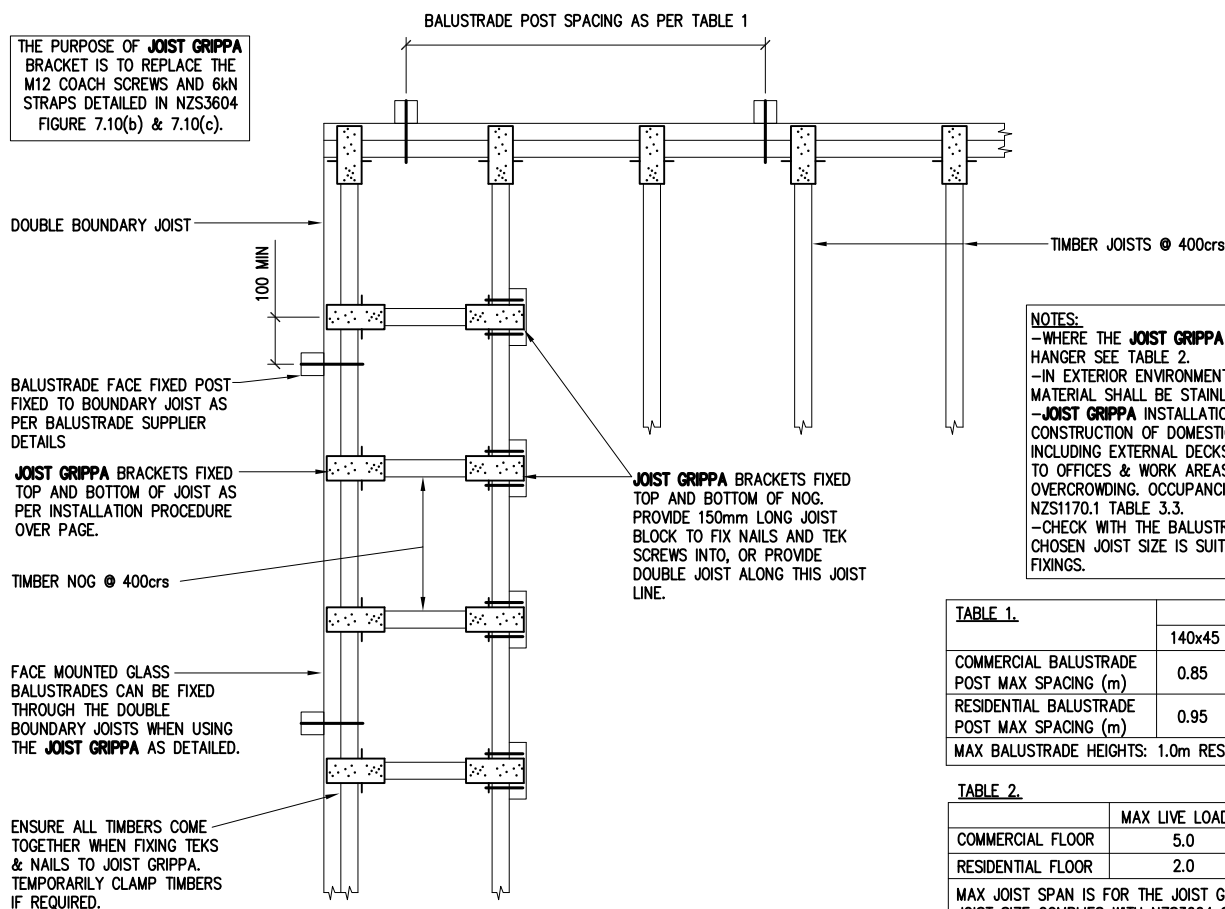
TABLE 1.	JOIST SIZE			
	140x45	190x45	240x45	290x45
COMMERCIAL BALUSTRADE POST MAX SPACING (m)	0.85	1.10	1.20	1.20
RESIDENTIAL BALUSTRADE POST MAX SPACING (m)	0.95	1.20	1.20	1.20
MAX BALUSTRADE HEIGHTS: 1.0m RESIDENTIAL, 1.1m COMMERCIAL.				

TABLE 2.

	MAX LIVE LOAD (kPa)	MAX JOIST SPAN (m)
COMMERCIAL FLOOR	5.0	4.0
RESIDENTIAL FLOOR	2.0	9.0

MAX JOIST SPAN IS FOR THE JOIST GRIPPA CAPACITY ONLY. CHECK JOIST SIZE COMPLIES WITH NZS3604 SPAN TABLES.

TOP FIXED BALUSTRADE POST - JOIST GRIPPA FIXING



NOTES:
-WHERE THE **JOIST GRIPPA** IS USED AS A JOIST HANGER SEE TABLE 2.
-IN EXTERIOR ENVIRONMENTS THE **JOIST GRIPPA** MATERIAL SHALL BE STAINLESS STEEL 304.
-**JOIST GRIPPA** INSTALLATION APPLIES TO BALUSTRADE CONSTRUCTION OF DOMESTIC & RESIDENTIAL BUILDINGS INCLUDING EXTERNAL DECKS & INTERNAL AREAS AND TO OFFICES & WORK AREAS NOT SUSCEPTIBLE TO OVERCROWDING. OCCUPANCIES A, B, C3 & E IN NZS1170.1 TABLE 3.3.
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MAX JOIST SPAN IS FOR THE JOIST GRIPPA CAPACITY ONLY. CHECK JOIST SIZE COMPLIES WITH NZS3604 SPAN TABLES.

FACE FIXED BALUSTRADE POST - JOIST GRIPPA FIXING

JOIST GRIPPA FIXING PLAN