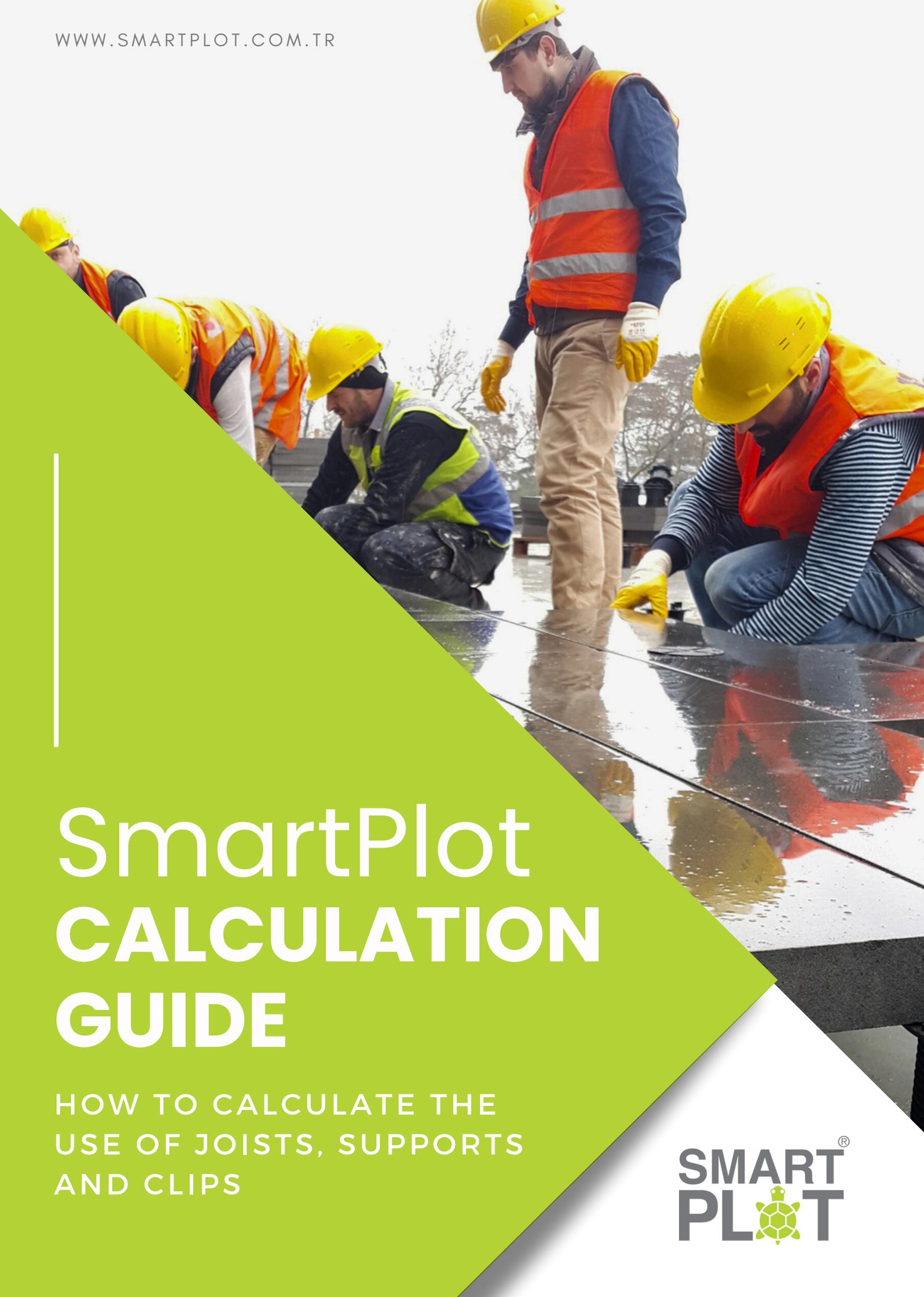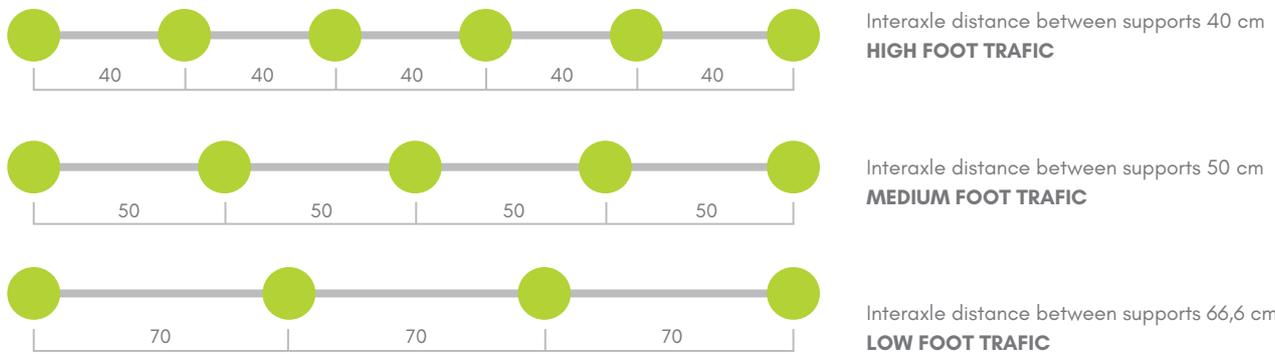# SmartPlot
CALCULATION
GUIDE

HOW TO CALCULATE THE USE OF JOISTS, SUPPORTS AND CLIPS

SMART PLOT

FOR LAYING SINGLE AND MULTI-FORMAT CERAMIC TILES

1. ONCE THE INTERAXEL SPACING OF THE SUPPORTS IS SET, THE NUMBER OF SUPPORTS PER SQUARE METER CAN BE CALCULATED.

Interaxle distance between supports 40 cm
HIGH FOOT TRAFIC

Interaxle distance between supports 50 cm
MEDIUM FOOT TRAFIC

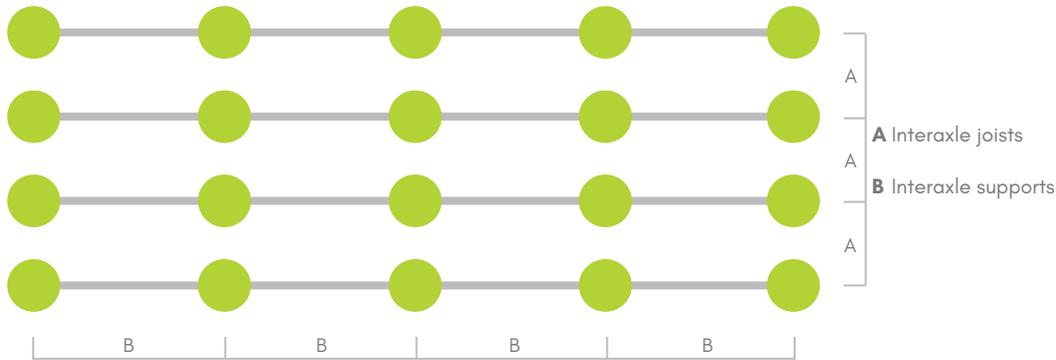Interaxle distance between supports 66,6 cm
LOW FOOT TRAFIC

The interaxle distance between the supports is set according to the type of foot traffic on the floor: HIGH, MEDIUM, LOW. The number of supports per square meter changes depending on the distance between the joists and the supports.

INTERAXLE SUPPORTS	INTERAXLE JOISTS	N* SUPPORTS PER SQUARE METER
40 cm **HIGH FOOT TRAFFIC**	30cm	8,4
	40cm	6,25
	45cm	5,6
	50cm	5
	60cm	4,25
50 cm **MEDIUM FOOT TRAFIC**	30cm	6,7
	40cm	5
	45cm	4,5
	50cm	4
	60cm	3,4
70 cm **LOW FOOT TRAFIC**	30cm	8
	40cm	3,6
	45cm	3,2
	50cm	3
	60cm	2,4

FOR LAYING CERAMIC TILES

1. THE FIRST STEP IS TO DEFINE THE INTERAXEL SPACING BETWEEN JOISTS AND SUPPORTS.
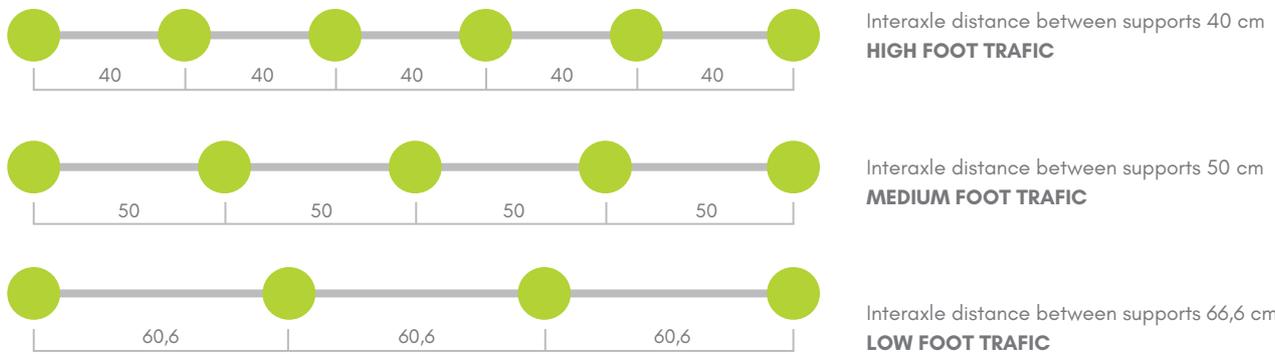

A Interaxle joists

B Interaxle supports

2. ONCE THE INTERAXEL DISTANCE OF THE JOISTS IS SET, THE TOTAL LENGTH OF JOISTS AND THE NUMBER OF TILE SPACERS (CLIPS) PER SQUARE METER CAN BE CALCULATED.

The joists' interaxle is calculated based on the measurements of the ceramic slabs. The interaxle distance between the supports is set according to the type of foot traffic on the floor: HIGH, MEDIUM, LOW.

| ALUM. JOISTS L.200CM	JOISTS INTERAXLE	SLABS DIMENSIONS	MT JOIST PER SQUARE METER	N°TILE SPACERS(CLIP) PER SQUARE METER
	40cm **HIGH FOOT TRAFIC**	20 x 120 cm 30 x 120 cm 40 x 120 cm	2,5	4,16 2,8 2,1
	45cm **MEDIUM FOOT TRAFIC**	30 x 180 cm 40 x 180 cm	2,25	1,85 1,4
	70cm **LOW FOOT TRAFIC**	20 x 120 cm 30 x 120 cm 40 x 120 cm 30 x 180 cm 40 x 180 cm	1,45	4,16 2,8 2,1 1,85 1,4

FOR LAYING CERAMIC TILES

3. AFTER DEFINING THE INTERAXEL SPACING OF THE SUPPORTS, THE NUMBER OF SUPPORTS PER SQUARE METER CAN BE DETERMINED.

Interaxle distance between supports 40 cm
HIGH FOOT TRAFIC

Interaxle distance between supports 50 cm
MEDIUM FOOT TRAFIC

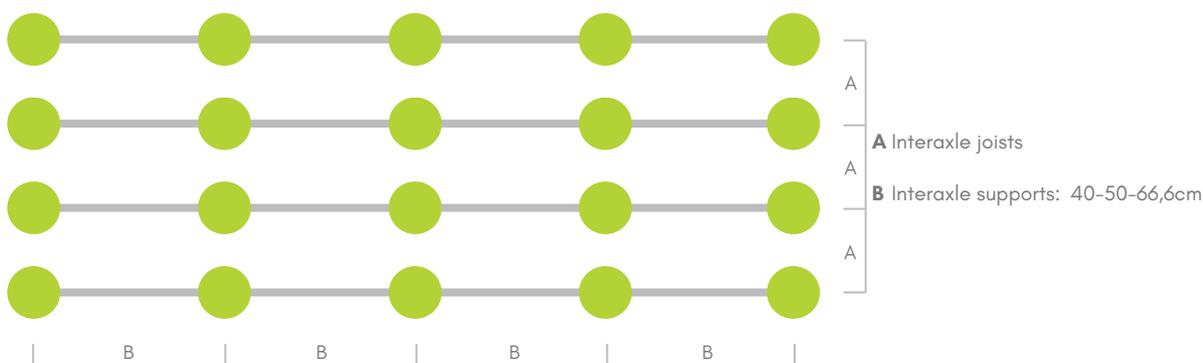Interaxle distance between supports 66,6 cm
LOW FOOT TRAFIC

The interaxle distance between the supports is determined based on the type of foot traffic on the floor: HIGH, MEDIUM, LOW. The number of supports per square meter varies based on the distance between the joists and the supports.

INTERAXLE SUPPORTS	INTERAXLE JOISTS	N° SUPPORTS PER SQUARE METER
40 cm **HIGH FOOT TRAFFIC**	40cm	6,25
	45cm	5,6
	60cm	4,25
50 cm **MEDIUM FOOT TRAFIC**	40cm	5
	45cm	4,5
	60cm	3,4
70 cm **LOW FOOT TRAFIC**	40cm	3,6
	45cm	3,2
	60cm	2,4
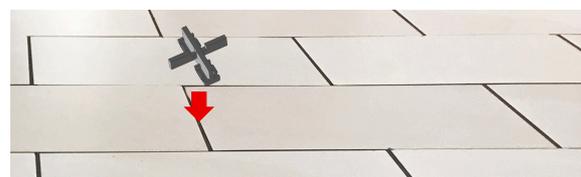
FOR LAYING WOODEN/WPC DECKS

1. THE INITIAL STEP IS TO DEFINE THE INTERAXEL SPACING BETWEEN JOISTS AND SUPPORTS.

A Interaxle joists

B Interaxle supports: 40-50-66,6cm

2.ONCE THE INTERAXEL DISTANCE OF THE JOISTS IS DETERMINED, THE TOTAL LENGTH OF JOISTS AND THE NUMBER OF TILE SPACERS (CLIPS) PER SQUARE METER CAN BE CALCULATED.

The interaxle distance between the supports is determined based on the type of foot traffic on the floor: HIGH, MEDIUM, LOW.

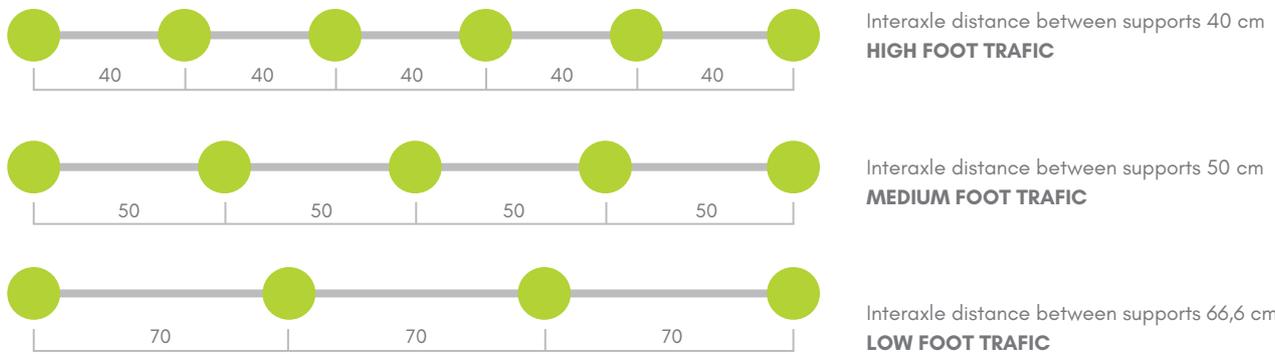| ALUM. JOISTS L.200CM	INTERAXLE JOISTS*	PLANKS DIMENSION	MT JOIST PER SQUARE METER	SINGLE CLIP MT PER JOIST	DOUBLE CLIP MT PER JOIST
	40cm **HIGH FOOT TRAFIC**	Lenght: da 90 a 240cm Width: da 9 a 15cm Tickness: da 1,8 a 3cm	3,3	**A**	**B**
	50cm **MEDIUM FOOT TRAFIC**	Lenght: da 90 a 240cm Width: da 9 a 15cm Tickness: da 1,8 a 3cm	2	**A**	**B**
	70cm **LOW FOOT TRAFIC**	Lenght: da 90 a 240cm Width: da 9 a 15cm Tickness: da 1,8 a 3cm	1,5	**A**	**B**

*We recommend always checking the joist spacing with the producer of wood

A 1mt (1000mm : plank width x2)
   Ex : 1000mm : 140mm = 7 x 2 = 14 clip/mt joist

B 1mt (1000mm : plank width)
   Ex : 1000mm : 140mm = 7clip/mt joist

FOR LAYING WOODEN/WPC DECKS

3. AFTER DEFINING THE INTERAXEL SPACING OF THE SUPPORTS, THE NUMBER OF SUPPORTS PER SQUARE METER CAN BE DETERMINED.

Interaxle distance between supports 40 cm
HIGH FOOT TRAFIC

Interaxle distance between supports 50 cm
MEDIUM FOOT TRAFIC

Interaxle distance between supports 66,6 cm
LOW FOOT TRAFIC

The interaxle distance between the supports is determined based on the type of foot traffic on the floor: HIGH, MEDIUM, LOW. The number of supports per square meter varies based on the distance between the joists and the supports.

INTERAXLE SUPPORTS	INTERAXLE JOISTS	N° SUPPORTS PER SQUARE METER
40 cm HIGH FOOT TRAFFIC	30cm	8,4
	40cm	6,25
	50cm	5
50 cm MEDIUM FOOT TRAFIC	30cm	6,7
	40cm	5
	50cm	4
70 cm LOW FOOT TRAFIC	30cm	6
	40cm	4
	50cm	3

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(*) The SmartPlot system uses SurPlot raised flooring pedestals. SmartPlot products are composed of innovative accessories adapted to SurPlot pedestals.