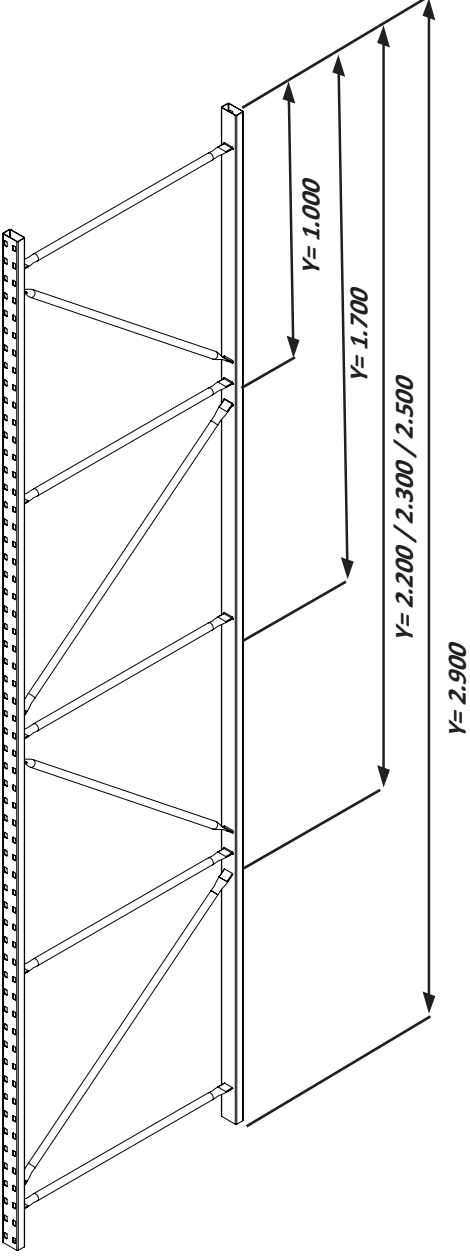


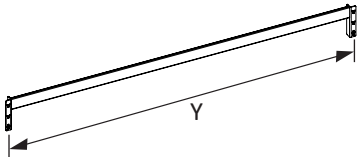
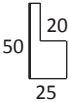
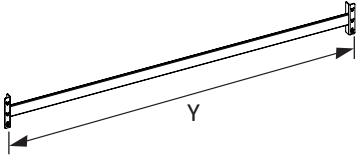
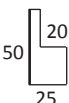
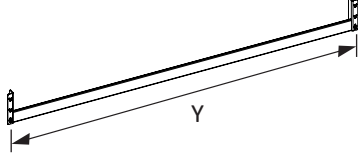
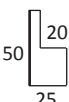
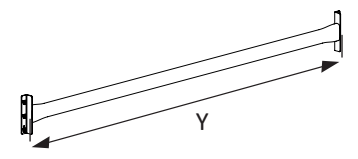
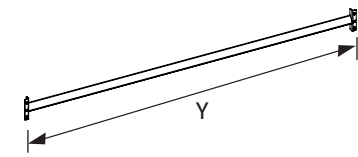
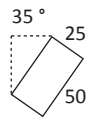
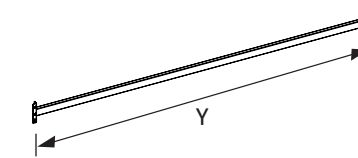
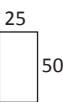
Tube-50 System



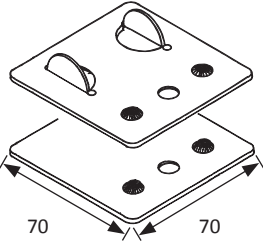
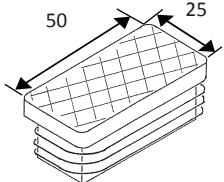
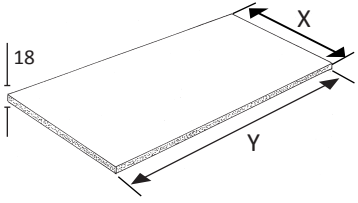
Tube-50 System

				Europe Racking Number
		VPE / U.E. / P.U.	X x Y	RAL 5009
 The diagram illustrates the Tube-50 System racking structure. It shows a side view of the frame with various dimensions labeled. The total height is Y=2.900. The width is X=1.000, X=1.700, X=2.200, X=2.300, and X=2.500. The diagram also shows the components: D: Rahmen, NL: Frame, F: Échelle, and E: Frame.	D: Rahmen	1	300 x 1.000	266-105
	NL: Frame	1	450 x 1.000	266-107
	F: Échelle	1	600 x 1.000	266-111
	E: Frame	1	750 x 1.000	266-125
		1	900 x 1.000	266-116
		1	1.200 x 1.000	266-121
		1	300 x 1.700	266-106
		1	450 x 1.700	266-108
		1	600 x 1.700	266-112
		1	750 x 1.700	266-126
		1	900 x 1.700	266-117
		1	1.200 x 1.700	266-122
		1	300 x 2.200	266-206
		1	450 x 2.200	266-210
		1	600 x 2.200	266-211
		1	750 x 2.200	266-212
		1	900 x 2.200	266-215
		1	1.200 x 2.200	266-207
		1	300 x 2.300	266-203
		1	450 x 2.300	266-208
		1	600 x 2.300	266-213
		1	750 x 2.300	266-227
		1	900 x 2.300	266-218
		1	1.200 x 2.300	266-223
		1	300 x 2.500	266-220
		1	450 x 2.500	266-221
		1	600 x 2.500	266-222
		1	750 x 2.500	266-225
		1	900 x 2.500	266-226
		1	1.200 x 2.500	266-217
		1	300 x 2.900	266-204
		1	450 x 2.900	266-209
		1	600 x 2.900	266-214
		1	750 x 2.900	266-228
		1	900 x 2.900	266-219
		1	1.200 x 2.900	266-224

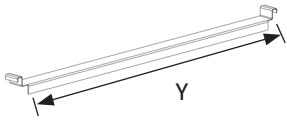
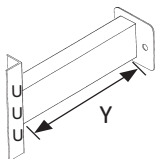
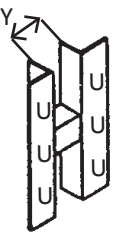
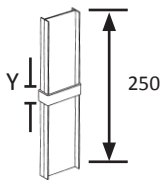
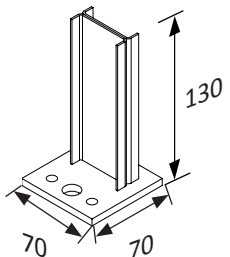
Tube-50 System

Europe Racking Number					
Standard / standaard	VPE / U.E. / P.U.	Y	RAL 7035	Profile tube	
	D: Träger oben NL: Bovenligger F: Lisse supérieure E: Top beam	1 1 1	1.012 1.512 1.812	266-131 266-136 266-137	
	D: Träger mitte NL: Middenligger F: Lisse intermédiaire E: Middle beam	1 1 1	1.012 1.512 1.812	266-132 266-134 266-135	
	D: Träger unten NL: Onderligger F: Lisse inférieure E: Bottom beam	1 1 1	1.012 1.512 1.812	266-133 266-138 266-139	
andere Optionen / andere opties / d'autres options / other options					
	D: Reifenträger NL: Bandenligger F: Lisses ronde pour pneus E: Tyre beam	1 1 1 1	1.512 1.812 2.012 3.012	266-241 266-242 266-243 266-244	
	D: Reifenträger NL: Bandenligger F: Lisses pour pneus E: Tyre beam	1 1 1 1	1.512 1.812 2.012 3.012	150-004 150-003 150-002 150-006	
	D: Palettenträger NL: Palletligger F: Lisses pour palette E: Pallet beam	1 1	1.512 2.312	100-008 100-001	

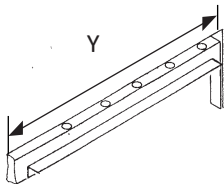
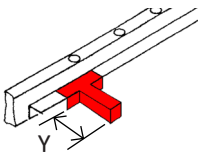
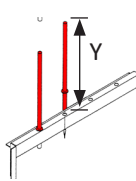
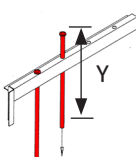
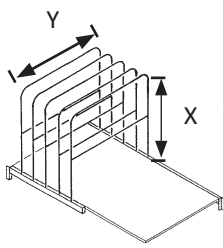
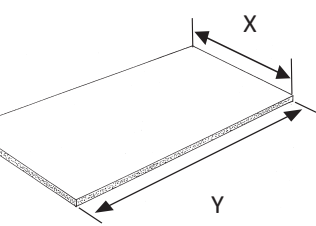
Tube-50 System

				Europe Racking Number
		VPE / U.E. / P.U.	X x Y	Verzinkt / Galvanise / Galvanised
	D: Sicherungsstifte NL: Borgpen F: Goupille de securité E: Security pins	1		269-096
	D: Fußplatte NL: Voetplaat F: Pieds métallique E: Footplate	1		269-097
	D: Ausgleichsplatte NL: Vulplaat F: Plaques de calâge E: Levelling shim	1		269-098
				Schwarz / Zwart / Noir / Black
	D: Abschlußkappe Kunststoff NL: Kunststof afdekcap F: Embout de protection E: Plastic end cap	1		269-982
				Holz / Hout / Bois / Wood
	D: Fachboden Spanplatte	1	278 x 1.003	268-154
	NL: Legbord spaanplaat	1	425 x 1.003	268-155
	F: Panneau bois	1	575 x 1.003	268-152
	E: Chipboard shelf	1	725 x 1.003	268-157
		1	875 x 1.003	268-153
		1	1.175 x 1.003	268-156
		1	278 x 1.501	268-141
		1	425 x 1.501	268-143
		1	575 x 1.501	268-145
		1	725 x 1.501	268-158
		1	875 x 1.501	268-147
		1	1.175 x 1.501	268-149
		1	278 x 1.801	268-142
		1	425 x 1.801	268-144
		1	575 x 1.801	268-146
		1	725 x 1.801	268-159
		1	875 x 1.801	268-148
		1	1.175 x 1.801	268-150

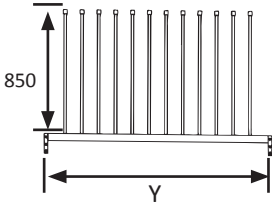
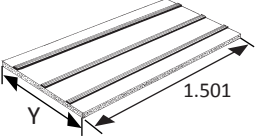
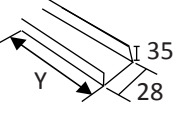
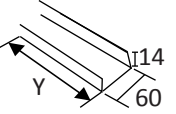
Tube-50 System

				Europe Racking Number	
		VPE / U.E. / P.U.	Y	RAL 7035	Verzinkt/ Galvanisé / Galvanized
	D: Bodenstütze	1	450	267-187	268-187
	NL: Legbord ondersteuning	1	600	267-188	268-188
	F: Renfort pour panneau bois	1	750	267-191	268-191
		1	900	267-189	268-189
	E: Shelf support	1	1.200	267-190	268-190
RAL 5009					
	D: Wandhalter	1	100	266-362	
	NL: Muursteun	1	150	266-885	
	F: Fixation murale	1	200	266-886	
	E: Wall suport	1	300	266-887	
	D: Distanzteil	1	36	266-100	
	NL: Afstandstuk	1	200	266-058	
	F: Entretoise pour double face	1	300	266-059	
		1	400	266-151	
	D: Rahmenverbinder	1	16	266-377	
	NL: Staanderverbindingstuk	1	25	266-382	
	F: Raccord montant, verticale	1	40	266-383	
	E: Frame connector				
	D: Fußplatte gesteckt	1		266-099	
	NL: HD voetplaat				
	F: Pieds métallique pour charge lourde				
	E: Heavy duty foot plate				

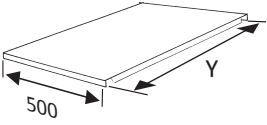
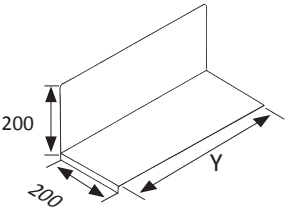
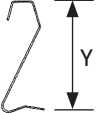
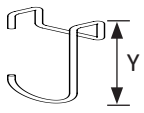
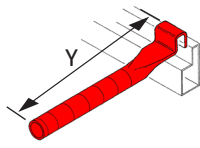
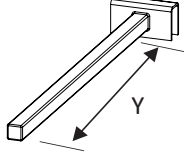
Tube-50 System

Europe Racking Number					
		VPE / U.E. / P.U.	Y	Anzahl Löcher / aantal gaten / nombre de trous / number of holes (ø12)	RAL 7035
	D: Träger	1	1.012	8	266-367
	NL: Plaatwerkligger	1	1.512	13	266-375
	F: Lisse perforée	1	1.512	20	266-364
	E: Perforated beam	1	1.812	15	266-369
	D: Bodenstütze für Glas-/ Karosserieregale	1	850		266-197
	NL: Legbordondersteuning tbv glaswerk/ plaatwerk	1	1.150		266-198
	F: Renfort pour pare-brises				
	E: Shelf support for windscreens				
RAL 5009					
	D: Stift stehend (ø12)	1	345		266-648
	NL: Verdeelpen staand (ø12)				
	F: Goupille de séparation inférieure (ø12)				
	E: Standing peg divide (ø12)				
	D: Stift hängend (ø12)	1	350		266-647
	NL: Verdeelpen hangend (ø12)				
	F: Goupille de séparation supérieure (ø12)				
	E: Hanging peg divider (ø12)				
X x Y RAL 5009					
	D: Bügel (ø12)	1	500 x 600		266-640
	NL: Verdeelboog (ø12)	1	500 x 900		266-641
	F: Etrier de séparation (ø12)				
	E: Divider (ø12)	1	825 x 900		266-642
		1	500 x 1.200		266-643
		1	825 x 1.200		266-644
	D: Holz Fachboden für Träger gelocht	1	547 x 1.003		268-123
	NL: Houten legbord voor gatenligger	1	847 x 1.003		268-124
	F: Panneau bois pour lisse perforée	1	1.147 x 1.003		268-127
	E: Wood shelf for perfo beam	1	547 x 1.501		268-129
		1	847 x 1.501		268-140
		1	1.147 x 1.501		268-130
		1	547 x 1.801		268-230
		1	847 x 1.801		268-231
		1	1.147 x 1.801		268-232

Tube-50 System

				Europe Racking Number	
		VPE / U.E. / P.U.	Y	Teiler/ Pinnen Separateur/ Pins	RAL 7035
	D: Träger mit Teiler für Glas	1	1.512	8	266-363
	NL: Glasstelling ligger met pinnen bekleed	1	1.512	12	266-196
	F: Lisses pour pare-brises avec séparateur				
	E: Windscreen beam with pins				
	D: Fachboden Holz für Glas	1	397		268-233
	NL: Houten legbord glasstelling	1	847		268-151
	F: Panneau bois pour pare-brises	1	1.147		268-128
	E: Wooden windscreen shelf	1			
	D: Schutzleisten Holz	1	1.512		268-113
	NL: Beschermingsprofiel hout				
	F: Profil de protection en bois				
	E: Wooden protection profile				
	D: Schutzleisten Kunststoff blau	1	2.000		268-899
	NL: Beschermingsprofiel PU Blauw				
	F: Profil de protection, Polyuréthane bleu				
	E: Protective PU Blue				

Tube-50 System

Europe Racking Number				
		VPE / U.E. / P.U.	Y	Verzinkt Galvanisé / Galvanized
	D: Stahlpaneele	1	600	268-354
	NL: Legbord	1	750	268-355
	F: Tablette métallique	1	900	268-356
	E: Shelf			
	D: Fachteiler	1	300	268-342
	NL: Verdeelschot	1	450	268-343
	F: Séparateur métallique	1	600	268-344
	E: Divider	1	750	268-347
		1	900	268-345
	D: Haken für Auspuff	100	137	268-043
	NL: Uitlaathaak			
	F: Crochets pour échappements	25	261	268-046
	E: Exhaust hooks			
	D: Haken Anhängerkupplung (Ø8) (90°) gedreht	10		268-283
	NL: Ophanghaak Trekhaak (Ø8) (90°) gedraaid			
	F: Crochets attache-remorque (Ø8) (90°) tournés			
	E: Towbar hooks (Ø8) (90°) turned			
	D: Fahrradhaken (Ø8) plastifiziert	1	200	268-403
	NL: Fietshaak (Ø8) geplastificeerd			
	F: Crochet vélo en fil métallique (Ø8) plastifiés	1	390	268-404
	E: Bicyclehook (Ø8) plasticised			
RAL 7035				
	D: Strebe hängend	1	600	266-183
	NL: Uitlaathanger	1	750	266-186
	F: Poutrelle pour stockage pendu	1	900	266-184
	E: Hanger	1	1.200	266-185
	D: Strebe stehend	1	500	266-095
	NL: Vakverdeler			
	F: Séparateur	1	600	266-104
	E: Exhaust divider			

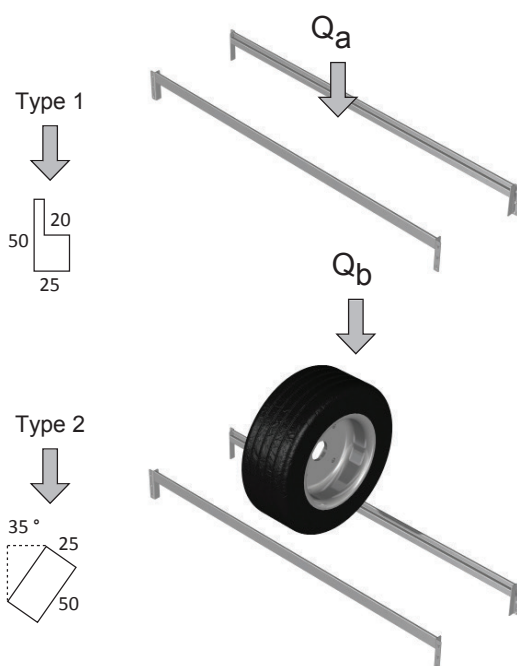
Tube-50 System Belastungstabelle

Max. belastung pro Unit	Rahmenhöhe (mm)	Knicklänge (mm)	Max. belastung (kg)
		500	4000
		600	3800
		800	3200
		1100	2400
		1400	1700
		1800	1000
		2100	600
		2200	540
		2500	540
		2700	540

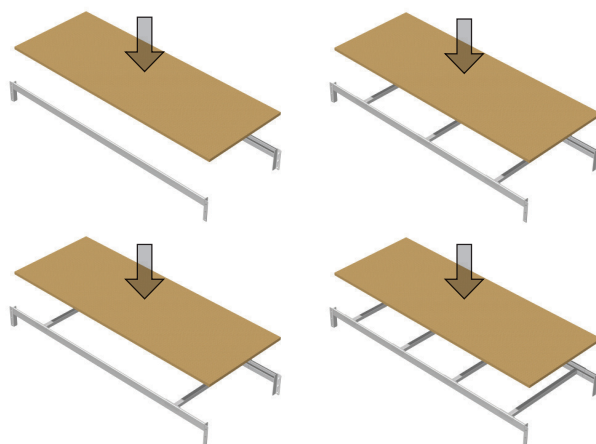
Ermittlung der Belastung

1. Festlegung der max Feldlast unter Berücksichtigung der Knicklänge.
2. Max. Traglast pro
3. Max. Traglast pro Fach unter Berücksichtigung der Anzahl Verstärkungen.

Max. Belastung pro Träger Paar (kg)	Trägerlänge (mm)	Boden (Q_a)	Reifen (Q_b) Type 1	Reifen (Q_b) Type 2
	1012	580	150	-
	1512	420	100	320
	1812	400	75	280
	2012	-	-	260
	3012	-	-	150



Max. Belastung pro Spanplatte Boden, 18 mm (kg)	Trägerlänge (mm)	Tiefe (mm)	Anzahl Verstärkungen			
			0	2	3	4
	1012	300	280	360	580	580
		450	200	240	450	480
		600	80	165	375	410
		750	50	150	365	400
		900	40	140	350	380
		1200	30	110	350	380
	1512	300	350	420	420	420
		450	300	340	420	420
		600	120	160	325	420
		750	75	150	300	420
		900	60	120	250	420
		1200	50	100	250	420
	1812	300	380	400	400	400
		450	350	400	400	400
		600	100	150	300	400
		750	90	120	275	400
		900	70	100	250	400
		1200	55	80	200	400



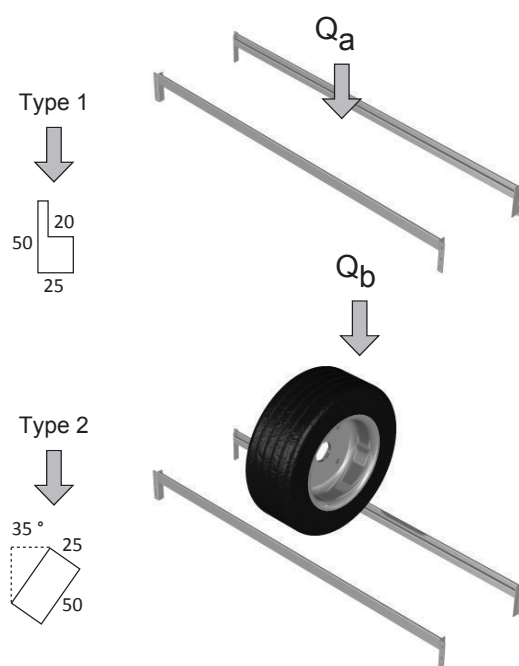
Tube-50 System belastingstabel

Max. belasting per unit	Framehoogte (mm)	Vrije kniklengte (mm)	Max. belasting (kg)
		500	4000
		600	3800
		800	3200
		1100	2400
		1400	1700
		1800	1000
		2100	600
		2200	540
		2500	540
		2700	540

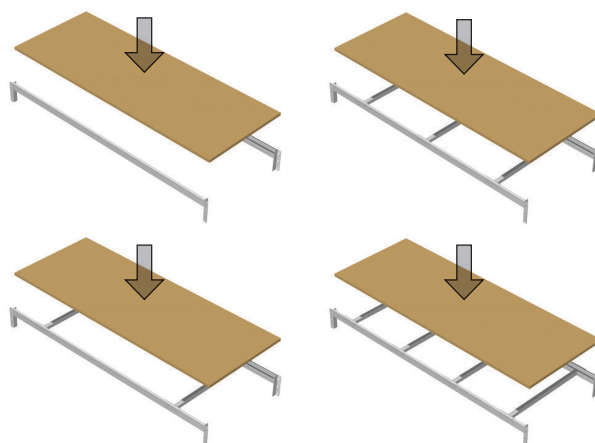
Wijze van gebruik

1. Bepaal de maximale unit belasting. Rond de vrije kniklengte af naar een hogere waarde en neem de hierbij behorende maximale unit belasting.
2. Bepaal de maximale liggerpaar belasting aan de hand van van de lengte van de ligger en de wijze van belasting (zie afbeelding).
3. Bepaal de maximale legbordbelasting aan de hand van de liggerlengte, framediepte en het aantal legbordondersteuning.

Max. belasting per liggerpaar (kg)	Liggerlengte (mm)	Legbord (Q _a)	Banden (Q _b) Type 1	Banden (Q _b) Type 2	
		1012	580	150	-
		1512	420	100	320
		1812	400	75	280
		2012	-	-	260
		3012	-	-	150



Maximale belasting per spaanplaat legbord, 18 mm (kg)	Liggerlengte (mm)	Diepte (mm)	Aantal legbordondersteuning			
			0	2	3	4
	1012	300	280	360	580	580
		450	200	240	450	480
		600	80	165	375	410
		750	50	150	365	400
		900	40	140	350	380
		1200	30	110	350	380
	1512	300	350	420	420	420
		450	300	340	420	420
		600	120	160	325	420
		750	75	150	300	420
		900	60	120	250	420
		1200	50	100	250	420
	1812	300	380	400	400	400
		450	350	400	400	400
		600	100	150	300	400
		750	90	120	275	400
		900	70	100	250	400
		1200	55	80	200	400



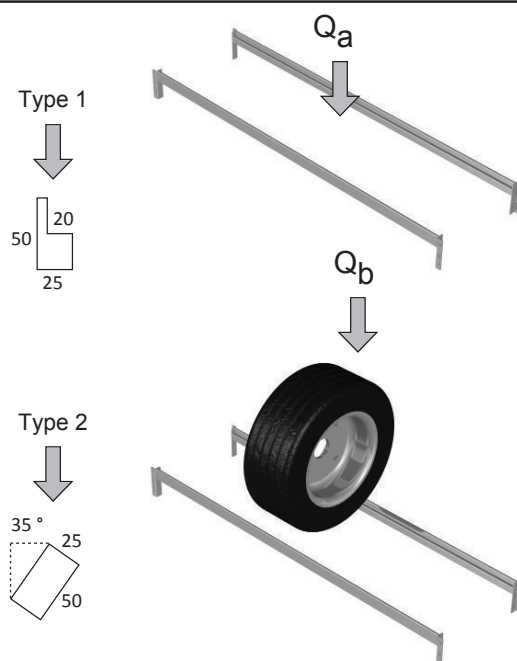
Tube-50 System table de charge

Charge maximale par unité	Hauteur du cadre (mm)	longueur de flambement (mm)	charge maximale (kg)
		500	4000
		600	3800
		800	3200
		1100	2400
		1400	1700
		1800	1000
		2100	600
		2200	540
		2500	540
		2700	540

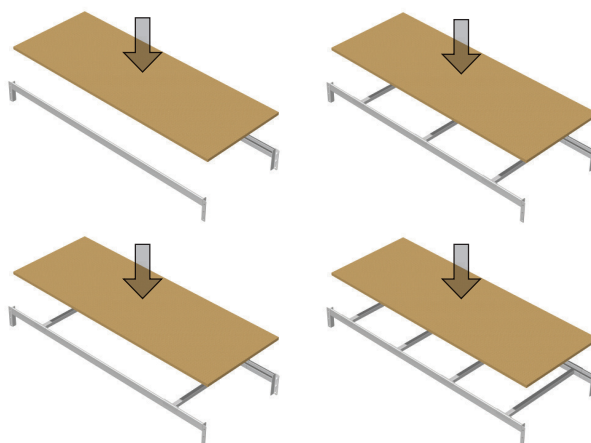
Méthode d'utilisation

1. Déterminez la charge maximale de l'unité. Arrondissez la longueur de flambement et prenez la charge correspondante maximale de l'unité.
2. Déterminez la charge maximale du paire de bras basée sur la longueur de la poutre et la méthode de chargement. (voir l'image).
3. Déterminez la charge maximale des étagères basée sur la longueur des poutres, la profondeur du cadre et le nombre de supports d'étagères.

Charge maximale par deux lisses (kg)	Longueur des lisses (mm)	Étagère (Q _a)	Pneus (Q _b) Type 1	Pneus (Q _b) Type 2	
		1012	580	150	-
		1512	420	100	320
		1812	400	75	280
		2012	-	-	260
		3012	-	-	150



Charge maximale par étagère panneaux de particules, 18 mm (kg)	Longueur des poutres (mm)	Profondeur (mm)	Nombre de support d'étagère			
			0	2	3	4
	1012	300	280	360	580	580
		450	200	240	450	480
		600	80	165	375	410
		750	50	150	365	400
		900	40	140	350	380
		1200	30	110	350	380
	1512	300	350	420	420	420
		450	300	340	420	420
		600	120	160	325	420
		750	75	150	300	420
		900	60	120	250	420
		1200	50	100	250	420
	1812	300	380	400	400	400
		450	350	400	400	400
		600	100	150	300	400
		750	90	120	275	400
		900	70	100	250	400
		1200	55	80	200	400



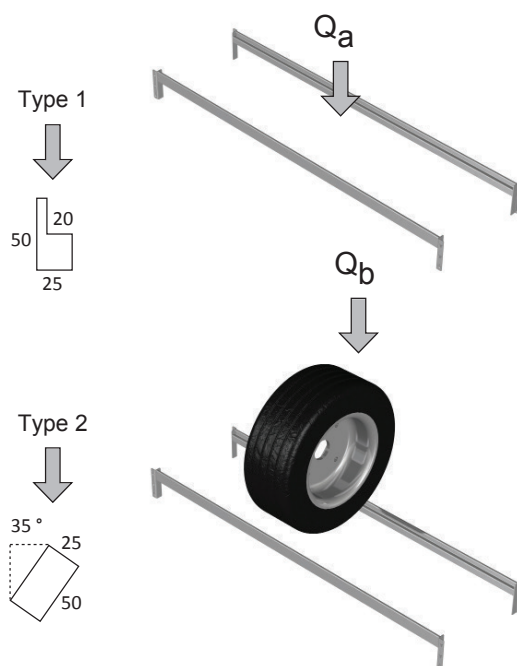
Tube-50 System load table

Max. load per unit	Frame height (mm)	Buckling length (mm)	Max. load (kg)
		500	4000
		600	3800
		800	3200
		1100	2400
		1400	1700
		1800	1000
		2100	600
		2200	540
		2500	540
		2700	540

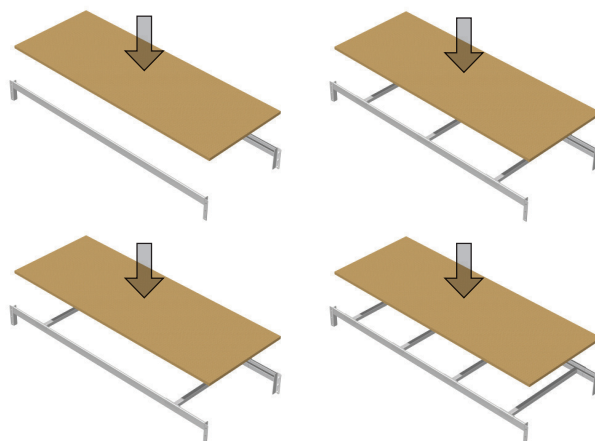
Instructions

1. Determine the maximum unit load. Round up the buckling length and take the matching maximum unit load.
2. Determine the maximum beam pair load based on the beam length and the method of loading (see illustration).
3. Determine the maximum shelf load based on beam length, frame depth and number of shelf supports.

Max. load per beampair (kg)	Beam length (mm)	Shelf (Q _a)	Tires (Q _b) Type 1	Tires (Q _b) Type 2	
		1012	580	150	-
		1512	420	100	320
		1812	400	75	280
		2012	-	-	260
		3012	-	-	150



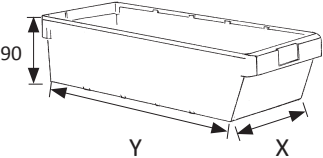
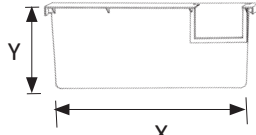
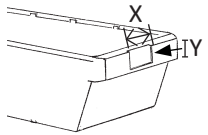
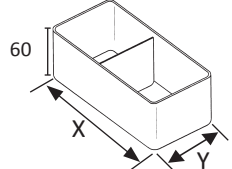
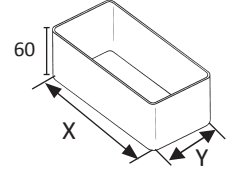
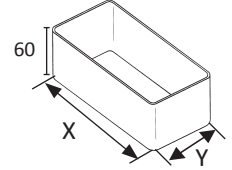
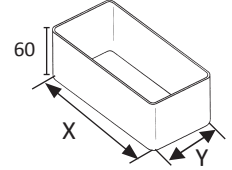
Max. load per chipboard shelf, 18 mm (kg)	Beam length (mm)	Depth (mm)	Number of shelf supports			
			0	2	3	4
	1012	300	280	360	580	580
		450	200	240	450	480
		600	80	165	375	410
		750	50	150	365	400
		900	40	140	350	380
		1200	30	110	350	380
	1512	300	350	420	420	420
		450	300	340	420	420
		600	120	160	325	420
		750	75	150	300	420
		900	60	120	250	420
		1200	50	100	250	420
	1812	300	380	400	400	400
		450	350	400	400	400
		600	100	150	300	400
		750	90	120	275	400
		900	70	100	250	400
		1200	55	80	200	400



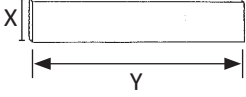
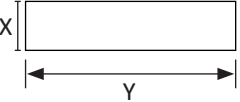
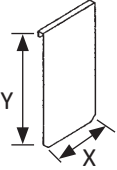
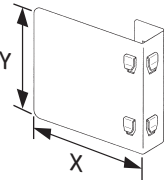
Zubehör
Toebehoren
Accessoires
Accessories



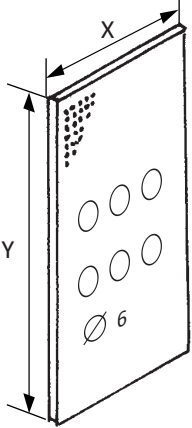
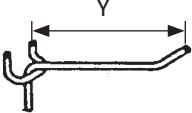
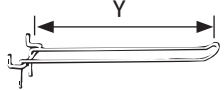
Accessories

				Europe Racking Number
		VPE / U.E. / P.U.	X x Y	Blau / Blauw / Bleu / Blue
	D: Lagerkasten	1	120 x 300	268-392
	NL: Kunststof bak	1	240 x 300	268-393
	F: Boîtes en plastique	1	120 x 400	268-394
	E: Plastic container	1	240 x 400	268-395
		1	120 x 500	268-398
		1	240 x 500	268-399
	D: Querteiler	1	120 x 90	268-396
	NL: Kunststof verdeelschot	1	240 x 90	268-397
	D: Weiße Etiketten + Fenster	50	67 x 30	268-370
	NL: Witte labels + vensters			
	D: Kunststoffbox geteilt	1	148 x 76	268-357
	NL: Kunststof bak met schotje			
	F: Boîte plastique avec paroi			
	E: Plastic container with divider			
	D: Kunststoffbox	1	148 x 76	268-366
	NL: Kunststof bak zonder schotje			
	F: Boîte plastique sans paroi			
	E: Plastic container without divider			

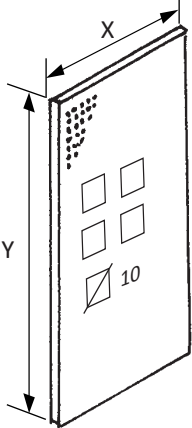
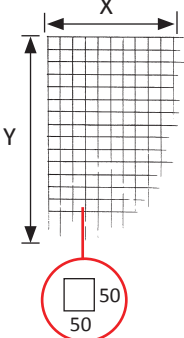
Accessories

				Europe Racking Number
		VPE / U.E. / P.U.	X x Y	
	D: Magnetetiketten weiß	100	15 x 95	268-049
	NL: Magneetetiket wit	100	20 x 95	268-044
	F: Etiquettes magnetique blanches	100	25 x 95	268-037
	E: Magnetic label blank	100	30 x 95	268-045
Transparent/ Transparant				
	D: Etikettenleiste selbstklebend	1	26 x 971	268-329
	NL: Labelhouder zelfklevend			
	F: Support étiquettes autoadhésive pour tablette			
	E: Self-adhesive label holder for shelf			
RAL 7035				
	D: Etiketten Trägerplatte	10	100 x 200	266-090
	NL: Identificatieplaat voor etiketten			
	F: Panneau pour etiquettes			
	E: Identification plate			
RAL 5009				
	D: Universalgangschild	1	100 x 90	266-264
	NL: Universeel lokatiebord			
	F: Panneau location universal	1	140 x 140	266-265
	E: Path identification universal			

Accessories

					Europe Racking Number
		VPE / U.E. / P.U.	X x Y	RAL 7035	
	D: Lochwand mit runden Löchern	1	300 x 2.000	266-004	
	NL: Perfo bord met ronde gaten	1	400 x 2.000	266-005	
	F: Panneau perforée trous ronds	1	450 x 2.000	266-006	
	E: Perforated panel with round holes	1	500 x 2.000	266-007	
		1	600 x 2.000	266-008	
		1	750 x 2.000	266-009	
		1	900 x 2.000	266-010	
		1	300 x 2.250	266-086	
		1	400 x 2.250	266-085	
		1	450 x 2.250	266-082	
		1	500 x 2.250	266-078	
		1	600 x 2.250	266-083	
		1	750 x 2.250	266-080	
		1	800 x 2.250	266-081	
		1	900 x 2.250	266-084	
			Y	Verzinkt/ Galvanisé / Galvanized	
	D: Befestigungshaken für Lochwand T50 NL: Ophanghaak perfobord T50 F: Crochets de fixation T50 E: Hook for perforated panel T50	2		268-091	
	D: Displayhaken	25	45	268-094	
	NL: Displayhaak	25	60	268-093	
	F: Broches	25	120	268-092	
	E: Display hook				
	D: Displayhaken doppelt NL: Dubbele displayhaak F: Broches doubles E: Display hook double	1	200	268-109	

Accessories

				Europe Racking Number
		VPE / U.E. / P.U.	X x Y	RAL 7035
	D: Lochwand für Werkzeughaken	1	300 x 2.000	266-401
	NL: Gereedschapsbord	1	400 x 2.000	266-402
	F: Panneau perforée trous carrés	1	450 x 2.000	266-403
	E: Perforated panel with square hole	1	500 x 2.000	266-404
		1	600 x 2.000	266-405
		1	750 x 2.000	266-406
		1	800 x 2.000	266-407
		1	900 x 2.000	266-408
		1	300 x 2.250	266-409
		1	400 x 2.250	266-410
		1	450 x 2.250	266-411
		1	500 x 2.250	266-412
		1	600 x 2.250	266-413
		1	750 x 2.250	266-414
		1	800 x 2.250	266-415
		1	900 x 2.250	266-416
	D: Schutzgitter	1	968 x 2.253	266-601
	NL: Gaaspaneel	1	1.553 x 2.253	266-600
	F: Panneau grillage	1	968 x 2.453	266-598
	E: Mesh panel	1	968 x 2.853	266-603
		1	1.553 x 2.853	266-599