



## **Staff Report**

For City Council Meeting - 1/5/2022

### ***Subject - New Business - Park Funds Request - Playground Equipment Purchase***

**Synopsis:** In November, the Council reviewed the process to purchase and install playground equipment in the City of Gearhart. The initial packet quote was up to \$43,000. However, late correspondence provided added a slide structure bringing the total up to \$60,000. The City is in the process of wrapping up the parks master plan draft and completing a conditional use permit requesting the Planning Commission approve the placement of the playground equipment in Centennial Park. With cost increases looming, the Council needs to decide whether to proceed with the Kompan playground quote without the permit process complete, or wait and pay more. Highwire has graciously agreed to lock our pricing and extend the quote expiration date from 12/31 to 1/31.

**Recommended Motion:** Staff recommends Council motion to approve the purchase of the Kompan playground equipment through Highwire as previously quoted and reviewed, up to \$60,000. That cost does not include a border (photo att'd as the very last page), which will be priced out next. Staff does not foresee an issue with completing the permitting process as the community has been extremely supportive of this project.

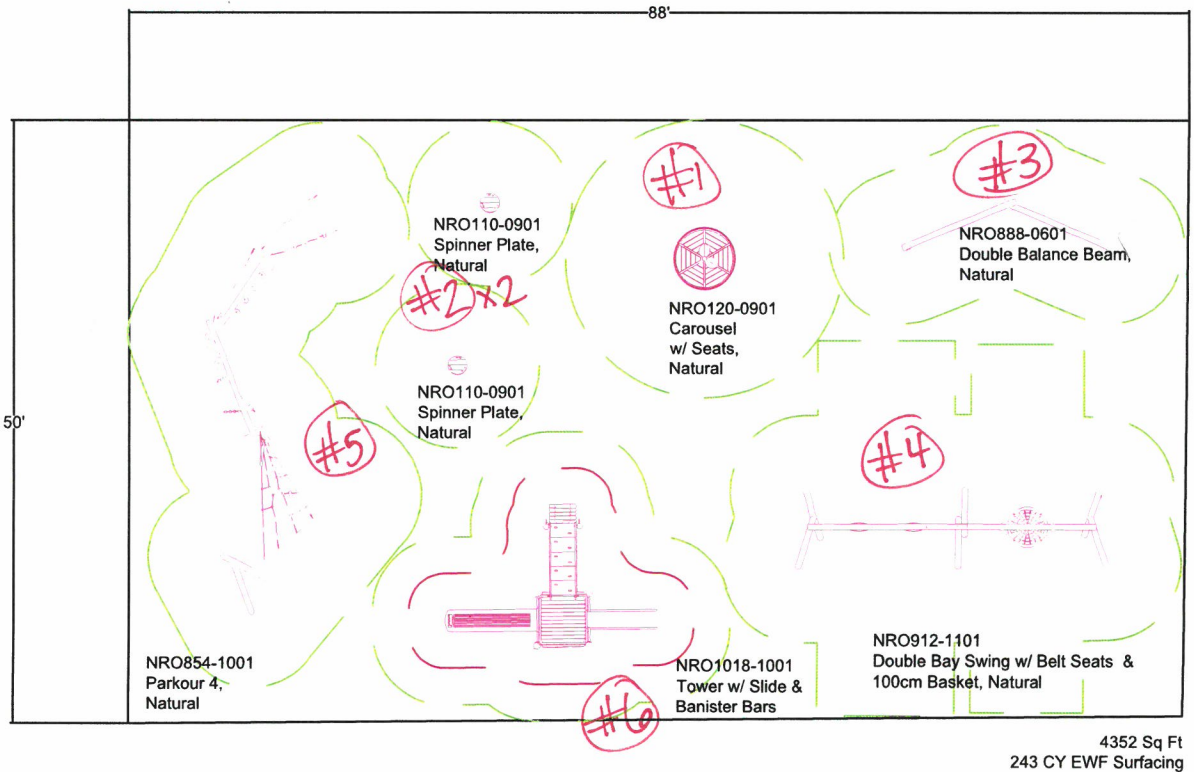
**Legal Analysis:** N/A

**Financial Analysis:** Kompan is experiencing a 5-10% increase depending on the item starting in January 2022. If the Council does not approve the purchase prior to January 31st, the total cost after will be \$63,000-\$66,000.

Respectfully submitted,



Chad



CENTENNIAL PARK  
GEARHART, OR



Highwire, Inc.  
 1116 N J St  
 Tacoma, WA 98403  
 +1 2066618320  
 info@highwireus.com

# Estimate

**ADDRESS**  
 City of Gearhart  
 698 Pacific Way  
 Gearhart, OR 97138

**SHIP TO**  
 City of Gearhart  
 698 Pacific Way  
 Gearhart, OR 97138

**ESTIMATE #** 2951  
**DATE** 10/13/2021  
**EXPIRATION DATE** 12/31/2021

**PROJECT NAME** Centennial Park      **CONTACT** Chad Sweett      **EST LEAD TIME / EST DEL DATE** 14 weeks (+/-)

ACTIVITY	QTY	PRICE	AMOUNT
1- <b>Kompan:NRO1018</b> Play Tower with Slide & Banister Bars, IG, Natural, NRO1018-1001	1	15,820.00	15,820.00T
1- <b>Kompan:NRO854</b> Parkour 4, IG, Natural, NRO854-1001	1	10,190.00	10,190.00T
1- <b>Kompan:NRO912</b> Double Swing Combination, Two Belt Seats, One Bird Nest, IG, Natural, NRO912-1101	1	7,350.00	7,350.00T
1- <b>Kompan:NRO110</b> Angled Plate Spinner, IG, Natural, NRO110-0901	2	1,270.00	2,540.00T
1- <b>Kompan:NRO888</b> Double Balance Beam, IG, Natural, NRO888-0601	1	1,000.00	1,000.00T
1- <b>Kompan:NRO120</b> Carousel with Seats, IG 90, Natural, NRO120-0901	1	7,280.00	7,280.00T
<b>shipping:Freight</b> Freight to Gearhart OR (freight valid for 30 days)	1	4,633.00	4,633.00T
3 - <b>Surfacing:Wood Fiber</b> Wood Carpet- Cedar, for 4352 SF = 243 CY	243	30.00	7,290.00T
<b>Misc</b> landscape fabric, roll = 15' x 600', with Estimated Freight	1	376.00	376.00T
3 - <b>Surfacing:Blower Install</b> Blow-in of 243 CY EWF	243	13.00	3,159.00T
1- <b>Kompan:Installation</b> ESTIMATED Equipment installation - based on 40% of MSRP (\$44,180)	0	17,672.00	0.00T

- Lead time for equipment from receipt of purchase order is 14 weeks (+/-).
- Price includes line items shown only.
- Installation pricing, if included, is an estimate only, definitive costs will be provided by installation contractor direct to customer. Offloading and disposal fees are not included.
- Customer is responsible for receiving and off-loading at time of delivery.
- Level dirt site not to exceed 1% grade and should be free of underground obstacles.
- Proposal assumes that site is accessible to class 8 vehicles.
- Highwire, Inc. assumes no responsibility for sub-grade failures or damage to hidden utilities, wires or other structures.
- Equipment pricing charges are valid for 60 days, freight charges are valid for 30 days.
- Payment terms: 50% deposit, net 30 upon shipment.
- Delinquent payments will be assessed late fees.

<b>SUBTOTAL</b>	59,638.00
<b>TAX</b>	0.00
<b>TOTAL</b>	<b>\$59,638.00</b>

Credit Card payments add 3.5%.

Payment terms: balance paid in full upon installation, late fees will apply

- Credit Card payments add 3.5%.
- All permits are the responsibility of the purchaser.

Accepted By

Accepted Date

Credit Card payments add 3.5%.

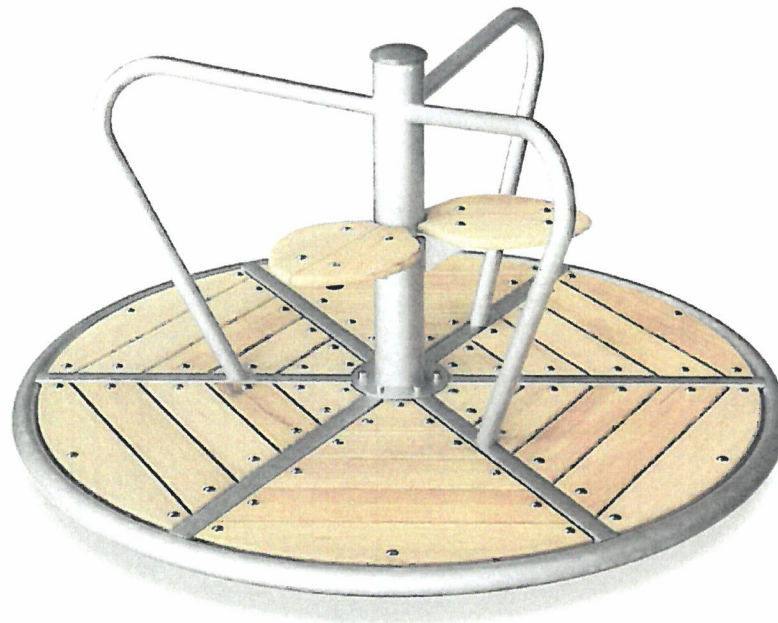
Payment terms: balance paid in full upon installation, late fees will apply

# CAROUSEL WITH SEATS

NRO120



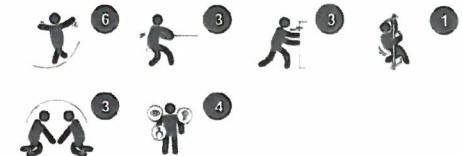
**KOMPAN!**  
Let's play



Item no. NRO120-0901

### General Product Information

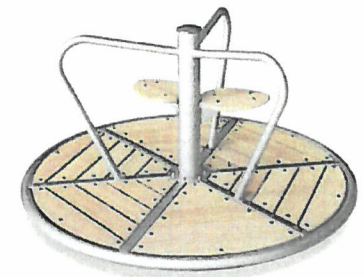
Dimensions LxWxH	5'1" x 5'1" x 2'8"
Age Group	5-12
Play Capacity	1 child
Color Options	



The Carousel with Seats is an attractive playground classic for children and adults alike. With its two seats and spinning option it invites social play and thrill, a winning combination for all play. Children can't get enough of that. The spinning starts by pushing or pulling the carousel into motion from the outside. The circular shape makes room for users both

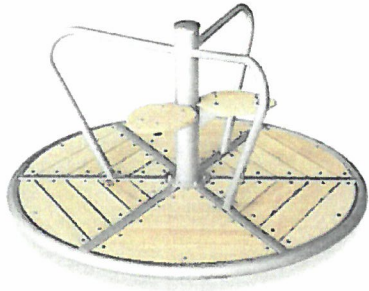
seated and standing, jumping on and off. Spinning on the carousel trains the vestibular system and the whole sense of balance. This is fundamental for the child's ability to navigate the world securely. It's fundamental for walking, running and being able to sit still and concentrate. When the sense of balance is under-developed, children can focus on nothing

but keeping equilibrium, seated or standing. So the fun of stomach tickling spinning serves a true purpose.

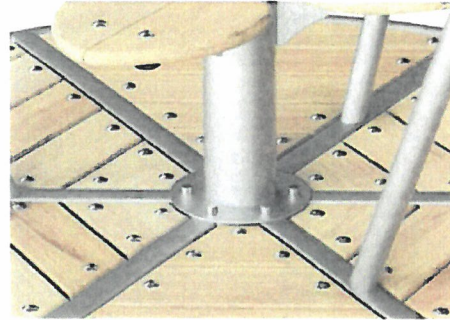


# CAROUSEL WITH SEATS

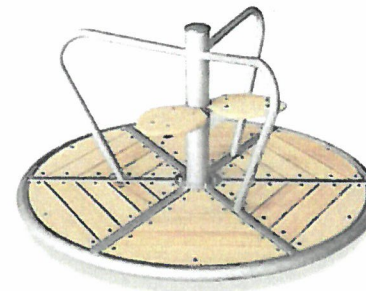
NRO120



All Organic Robinia products by KOMPAN are made of 100% Robinia wood from sustainable European sources. On request it can be supplied with 100% FSC™ certification.



The steel surfaces are hot dip galvanized inside and outside with lead free zinc. The galvanization has excellent corrosion resistance in outside environments and is maintenance free.



The large heavy bearing system with ball bearings is located below the deck well protected from dirt and soil. The bearing system is lubricated from a center point through an opening in the wooden deck.

Item no. NRO120-0901	
<b>Installation Information</b>	
Max. fall height	2'8"
Safety surfacing area	419,8ft²
Numbers of Installers (persons)	2
Total installation time	3
Excavation volume	0,58 yd³
Concrete volume	0,54 yd³
Footing Depth (Standard)	3' 3"
Shipment Weight	401 lbs
Anchoring options	In-ground ✓
<b>Warranty information</b>	
Robinia wood	10 Years
Stainless steel	10 Years
Bearing system	5 Years
Spare parts guaranteed	10 Years

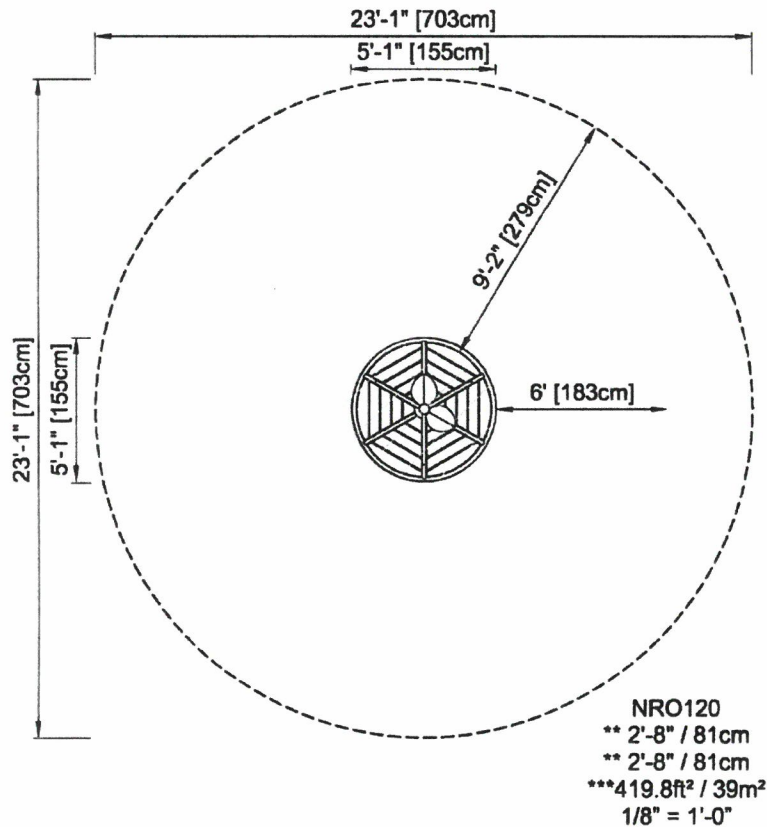
Elevated Activities 0	Accessible Elevated Activities	Accessible Ground Level Activities	Accessible Ground Level Play Types
Present	0	1	1
Required	0	1	1

# CAROUSEL WITH SEATS

NRO120

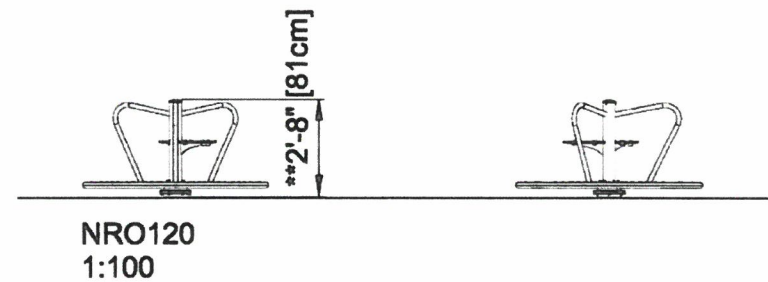


Max fall height | Total height | Safety surfacing area



[Click to see 1:100 ratio TOP VIEW](#)

Max fall height | Total height



[Click to see 1:100 ratio SIDE VIEW](#)

# CAROUSEL WITH SEATS

NRO120



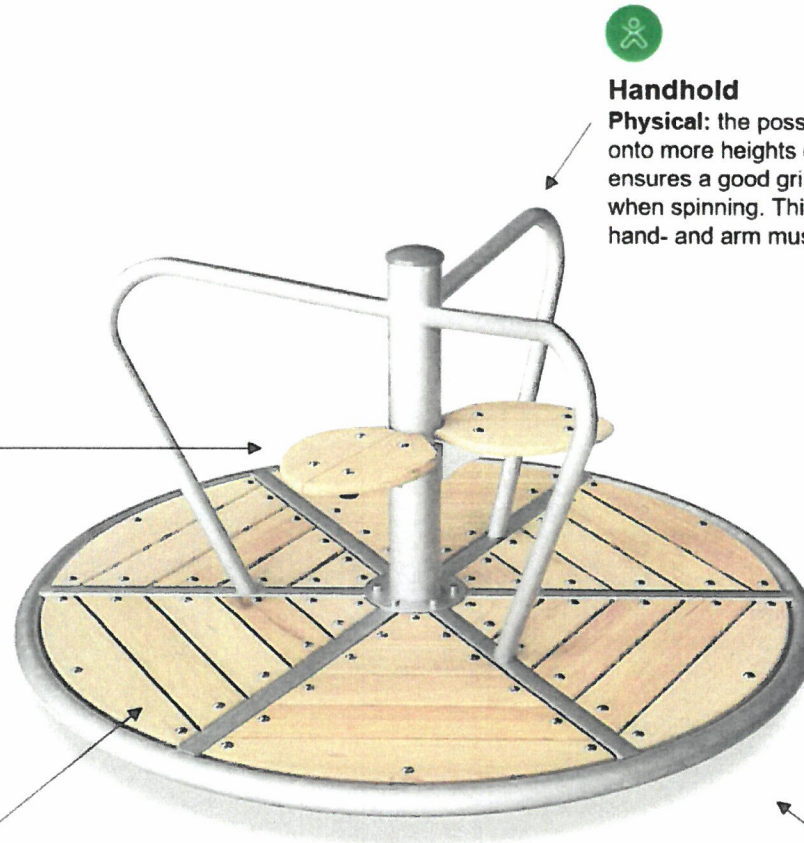
## Seat

**Social-Emotional:** sharing, listening when having a break in the seating setting.  
**Cognitive:** support language development when having a chat.



## Open space

**Social-Emotional:** room for many users, to spin and play together. Training of cooperation and empathy.



## Handhold

**Physical:** the possibility to hold onto more heights of the handhold ensures a good grip, necessary when spinning. This trains the hand- and arm muscles.



## Rotation

**Physical:** pushing or pulling it into motion, children use their muscle strength and get cardio training. The rotation trains the sense of balance and space, both important for e.g. navigating traffic safely.  
**Social-Emotional:** Listening and negotiating e.g. speed of spinning, children develop their empathy and cooperation skills.



# CAROUSEL WITH SEATS

NRO120



**PHYSICAL**  
Joy of movement:  
motor skills, muscle, cardio  
and bone density



**SOCIAL-EMOTIONAL**  
Joy of being together:  
teamwork, tolerance and  
sense of belonging



**COGNITIVE**  
Joy of learning:  
curiosity, understanding of causal  
relationships and knowledge of the world



**CREATIVE**  
Joy of creating:  
co-creation and experimenting  
with materials



**BALANCE**  
To balance is to stay upright when walking or standing on a surface that makes this challenging (e.g. a wobbly, inclined, or narrow surface).



**HANG IN ARMS**  
To hang in arms is the act of carrying the body with the hands or arms, possibly to traverse to another platform or play item.



**SENSORY**  
To sense is the act of taking in information with the sensory system: seeing, feeling, hearing or sensing with the body.



**BOUNCE**  
To bounce is the act of bouncing on a responsive, flexible, elastic or tensile surface.



**JUMP**  
To jump is the act of jumping up or down on a hard surface.



**SLIDE**  
To slide is the act of moving fast downwards seated on a slide.



**CLIMB**  
To climb is the act of moving upwards, cross-coordinating arms and legs, on a vertical or inclined surface or net.



**PULL**  
To pull is the act of pulling an item towards you or you towards an item with one or both hands, or possibly using the entire body.



**SOCIALIZE**  
To socialize is the act of meeting, communicating or cooperating in an activity that stimulates and facilitates social interaction.



**CONSTRUCT**  
To construct is the act of creating new patterns, shifting items or materials to new positions or constructing with materials that can be transformed or manipulated.



**PUSH**  
To push is the act of pushing an item away from you with one or both hands, possibly with the entire body.



**SPIN**  
To spin involves a fast, repeated horizontal or vertical turn of the body on a piece of equipment that facilitates the movement.



**CRAWL**  
To crawl is the movement of moving forwards or backwards, cross-coordinating arms and legs, on a horizontal or slightly inclined surface.



**ROCK**  
To rock is the action of rocking back and forth, or sideways, on e.g. a piece of spring equipment.



**SWAY**  
To sway is the movement of swaying back and forth, or around, lying, seated or possibly standing, in a pendulant or circular movement, e.g. on a hammock or on a rope.



**DRAMATIC PLAY**  
Dramatic play is motivated through play items that stage a frame, place or environment for acting out make believe or role play scenarios.



**ROTATE**  
To rotate involves a vertical or horizontal slower paced turn of the body, facilitated by a piece of equipment.



**SWING**  
To swing is the movement of swinging back and forth, or in circular movement, seated, standing or lying, in an unhindered arc.



**GLIDE**  
To glide is the act of moving from one point to another without shifting the feet, in a horizontal or vertical movement, in a seated, lying or standing position, letting gravity do the work.



**RULES PLAY**  
Rules play is motivated through play items that suggest games-with-rules, cooperation and team work, e.g. tic-tac-toe, timers or ball games.



**WONDER**  
To wonder is motivated through play items that make children need and use their logical, abstract or creative thinking skills, as well as their memory.

# KOMPAN Product Info

## SPINNER PLATE - NRO110



ROBINIA

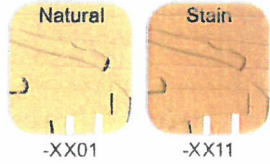
Best User Age: 5-12 years

Footings: In-ground installation  
Surface installation also available

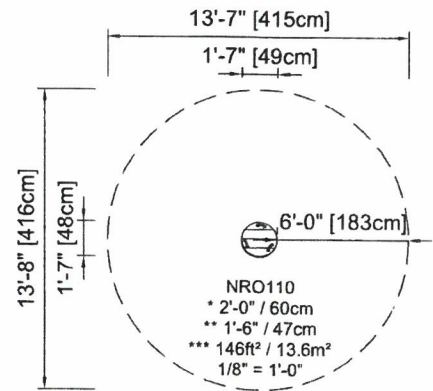
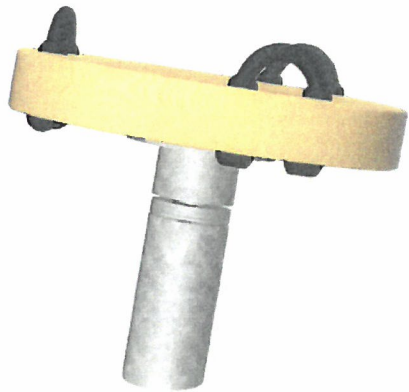
Technical information available at [koman.com](http://koman.com)

ADA ANALYSIS	Elevated Activities	Ground Level Activities	Ground Level Play Types
Present	0	1	1
Accessible	0	1	1
Required	0	1	1

Available Options:



#2



To verify product certification, visit [www.ipema.org](http://www.ipema.org)

\* = Highest designated play surface.  
\*\* = Total height of product.  
\*\*\* = Total area of safety zone.

Highest designated play surface, space required and total area of safety zone are according to ASTM F1487. Equipment must be installed over resilient surfacing appropriate to the safety guidelines in your area.

Product development is an ongoing process. We reserve the right to make modifications on all our products. This product may not be mirrored, scaled or altered in any way. Safety zones must be retained for proper placement of equipment. If any changes are required, please contact your KOMPAN representative at 1.800.426.9788.

**NRO888**

# Double balance beam

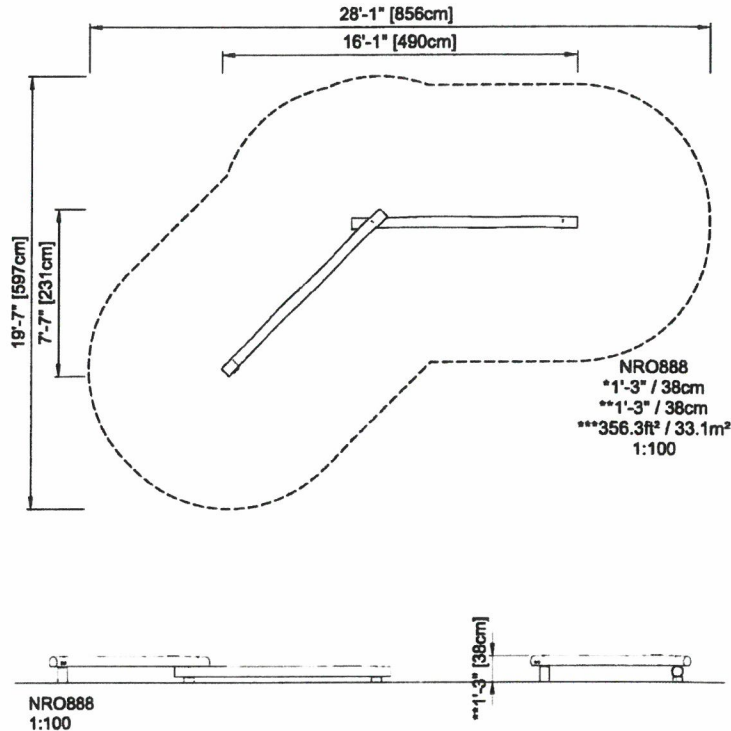


Balancing is always an attractive activity to children. This balancing beam invites children to compete individually or against each other. Through this activity children train and develop their balance and coordination, but they also use the balancing beam as a nice place to gather. FSC® Certified (FSC® C004450) robinia wood on request.

<b>Product Line</b>	Organic Robinia
<b>Category</b>	Traditional play, Sand and water play
<b>Age from</b>	5 - 12
<b>Max. fall height (CM)</b>	61
<b>Total height (CM)</b>	61
<b>Safety Zone</b>	24 m2



**ASTM**



\* = Highest designated play surface.  
\*\* = Total height of product.

<b>Weight/heaviest parts</b>	kg.	<b>Installation (Manpower)</b>	Persons
<b>Concrete required</b>	NaN m3	<b>Installation (Hours)</b>	Hours
<b>Foundation amount/footing</b>	NaN	<b>Excavation</b>	NaN m3



To verify product certification, visit [www.ipema.org](http://www.ipema.org)

Highest designated play surface and space required are according to ASTM F1487. Equipment must be installed over resilient surfacing appropriate to the safety guidelines in your area. Product development is an ongoing process. We reserve the right to make modifications on all our products. This product may not be mirrored, scaled or altered in any way. Safety zones must be retained for proper placement of equipment. If any changes are required, please contact your KOMPAN representative at 1.800.426.9788.

# DOUBLE SWING COMBINATION

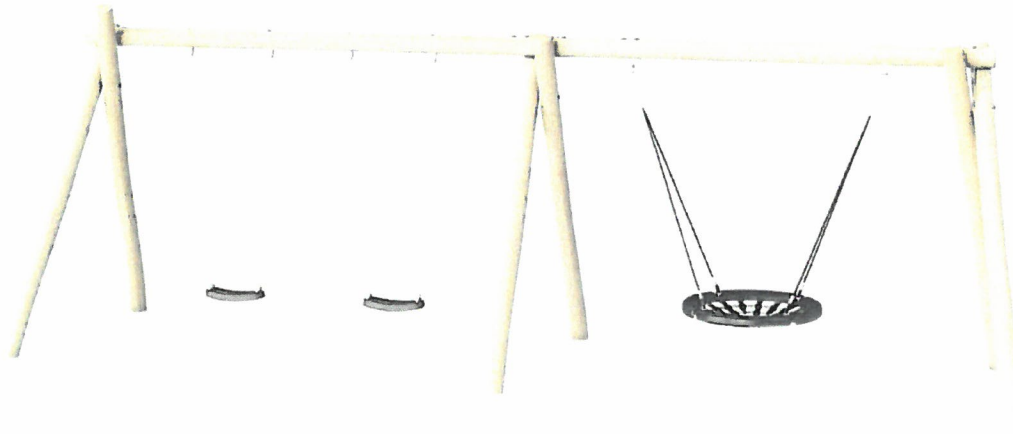
NRO912



Item no. NRO912-1101

### General Product Information

Dimensions LxWxH	26' x 6'10" x 9'1"
Age Group	5-12
Play Capacity	9 children
Color Options	



Of all the play activities, swinging is a favorite: children love it, as it can be done individually and together. This swing set combines that joy and adds the possibility of different body positions and group sizes with two single swing seats and one nest swing seat. This is a great place to play, for all ages, for hours and days. Swinging, apart from being great fun, trains the

children's ABC's: agility, balance and coordination, as well as their spatial awareness. These motor skills are crucial to being able to judge distances and navigate spaces safely. Swings allows for standing sitting, lying – and not least, jumping off. Apart from the motor skills training, this trains the arm, leg and core muscles. The jumping off strengthens bone

density– the majority of which is built up during the first years of life.

# DOUBLE SWING COMBINATION

NRO912



All Organic Robinia products by KOMPAN are made of 100% Robinia wood from sustainable European sources. On request it can be supplied with 100% FSC™ certification.



The standard seats of KOMPAN swings is engineered for maximum safety and durability. The seat two component plastic seat with a PP inner core and EDPM outside rubber is produced in one operation. The seats are available with swing chains of either hot dip galvanized steel or stainless steel for all swings heights.



Swing hangers for Robinia wood cross beams are made of stainless-steel brackets and can move over two axis. The plastic flange bearings are silicone enriched to make the suspension maintenance free.



KOMPAN designed the new bird's nest seats to be light in weight and in compliance with global safety standards. The soft, shock absorbent bumpers with non-slip surface makes the swing seat extremely user friendly. Choose between a rope version with reinforced PA rope or a molded plastic version. Both equipped with soft bumpers.



The Robinia wood can be supplied as untreated raw wood, painted with a brown colored transparent pigment that maintains the golden wood color or in a colored version where selected components are painted in different colors.

Item no. NRO912-1101

### Installation Information

Max. fall height	7'9"
Safety surfacing area	912ft²
Numbers of Installers (persons)	2
Total installation time	10
Excavation volume	2,99 yd³
Concrete volume	0,24 yd³
Footing Depth (Standard)	3' 8"
Shipment Weight	1315 lbs
Anchoring options	In-ground ✓

### Warranty information

Robinia wood	10 Years
Stainless steel hardware	Lifetime
Chains	10 Years
Spare parts guaranteed	10 Years

Elevated Activities 0	Accessible Elevated Activities	Accessible Ground Level Activities	Accessible Ground Level Play Types
Present	0	1	1
Required	0	1	1

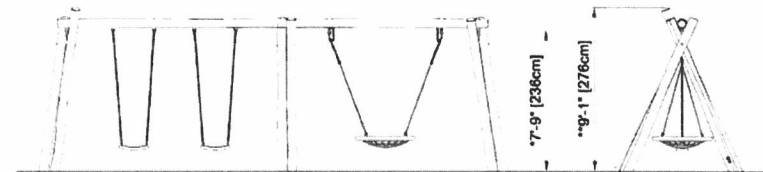
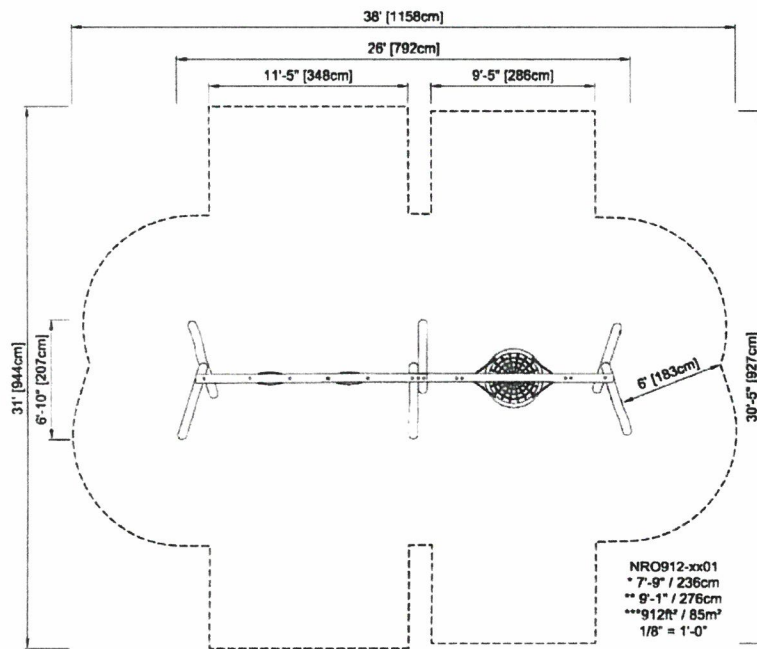
# DOUBLE SWING COMBINATION

NRO912



Max fall height | Total height | Safety surfacing area

Max fall height | Total height



NRO912  
1:100

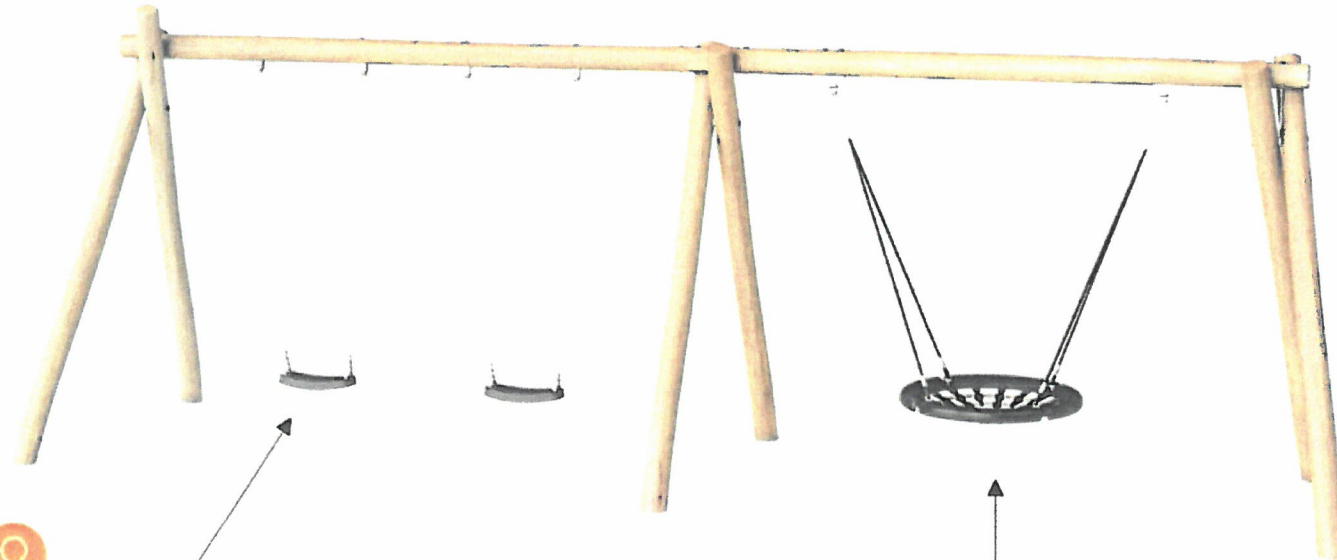
[Click to see 1:100 ratio TOP VIEW](#)

[Click to see 1:100 ratio SIDE VIEW](#)

# DOUBLE SWING COMBINATION

NR0912

**KOMPAN!**  
Let's play



## Two single swings

**Physical:** agility, balance, coordination and spatial awareness are trained when swinging. All necessary when e.g. judging distances and managing traffic safely. The swinging movement trains the arm, leg and core muscles, and the bone density when jumping off.

**Social-Emotional:** parallel play invite cooperation and consideration.

**Cognitive:** cause and effect, managing rhythm and thinking skills for younger children when swinging. Rules games for bigger children, when swinging in same or different rhythm, or, e.g. jumping.



## Birds nest

**Physical:** agility, balance, coordination and spatial awareness are developed when swinging. The swinging movement trains the arm, leg and core muscles, and strengthens bone density when jumping off.

**Social-Emotional:** the spacious seat allows for many children standing, lying, seated together and is inclusive for all.

**Cognitive:** cause and effect, rhythm and thinking skills are developed in younger children.



# DOUBLE SWING COMBINATION

NRO912



**PHYSICAL**  
Joy of movement:  
motor skills, muscle, cardio  
and bone density



**SOCIAL-EMOTIONAL**  
Joy of being together:  
teamwork, tolerance and  
sense of belonging



**COGNITIVE**  
Joy of learning:  
curiosity, understanding of causal  
relationships and knowledge of the world



**CREATIVE**  
Joy of creating:  
co-creation and experimenting  
with materials



**BALANCE**  
To balance is to stay upright when walking or standing on a surface that makes this challenging (e.g. a wobbly, inclined, or narrow surface).



**HANG IN ARMS**  
To hang in arms is the act of carrying the body with the hands or arms, possibly to traverse to another platform or play item.



**SENSORY**  
To sense is the act of taking in information with the sensory system: seeing, feeling, hearing or sensing with the body.



**BOUNCE**  
To bounce is the act of bouncing on a responsive, flexible, elastic or tensile surface.



**JUMP**  
To jump is the act of jumping up or down on a hard surface.



**SLIDE**  
To slide is the act of moving fast downwards seated on a slide.



**CLIMB**  
To climb is the act of moving upwards, cross-coordinating arms and legs, on a vertical or inclined surface or net.



**PULL**  
To pull is the act of pulling an item towards you or you towards an item with one or both hands, or possibly using the entire body.



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**PUSH**  
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**SPIN**  
To spin involves a fast, repeated horizontal or vertical turn of the body on a piece of equipment that facilitates the movement.



**CRAWL**  
To crawl is the movement of moving forwards or backwards, cross-coordinating arms and legs, on a horizontal or slightly inclined surface.



**ROCK**  
To rock is the action of rocking back and forth, or sideways, on e.g. a piece of spring equipment.



**SWAY**  
To sway is the movement of swaying back and forth, or around, lying, seated or possibly standing, in a pendulant or circular movement, e.g. on a hammock or on a rope.



**DRAMATIC PLAY**  
Dramatic play is motivated through play items that stage a frame, place or environment for acting out make believe or role play scenarios.



**ROTATE**  
To rotate involves a vertical or horizontal slower paced turn of the body, facilitated by a piece of equipment.



**SWING**  
To swing is the movement of swinging back and forth, or in circular movement, seated, standing or lying, in an unhindered arc.



**GLIDE**  
To glide is the act of moving from one point to another without shifting the feet, in a horizontal or vertical movement, in a seated, lying or standing position, letting gravity do the work.



**RULES PLAY**  
Rules play is motivated through play items that suggest games-with-rules, cooperation and team work, e.g. tic-tac-toe, timers or ball games.



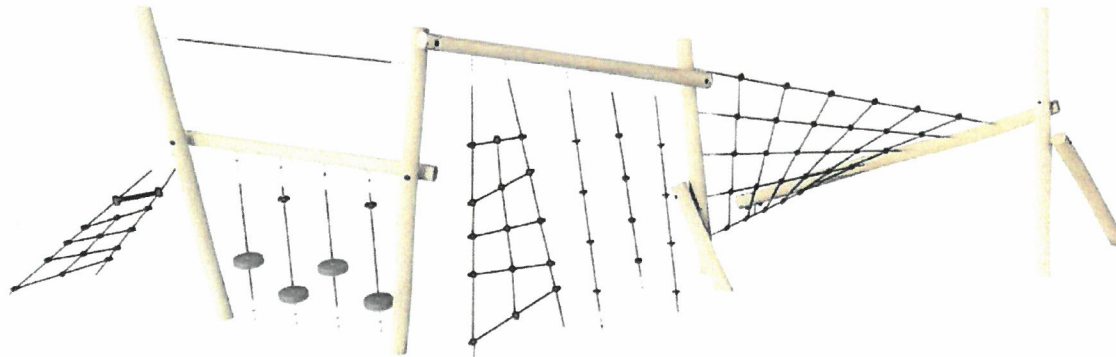
**WONDER**  
To wonder is motivated through play items that make children need and use their logical, abstract or creative thinking skills, as well as their memory.

# PARKOUR 4

NRO854

#5

**KOMPAN!**  
Let's play



Item no. NRO854-1001

### General Product Information

Dimensions LxWxH	32'9" x 15'3" x 8'11"
Age Group	5-12
Play Capacity	12 children
Color Options	



The Parkour 4 is a hugely appealing playpiece. Exactly what 5-12 year olds want: a trim trail that's fun. The variation in climbing, crawling and balancing activities will make children come back again and again. The many inclined, twisted and vertical nets and the different mesh directions make great play challenges. Climbing or crawling up, down and through the big

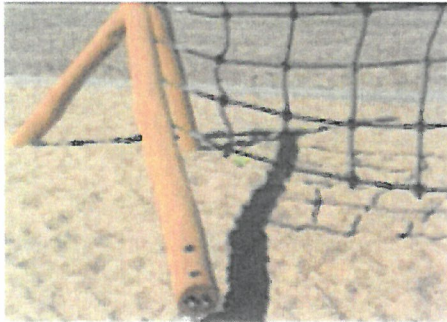
meshes greatly stimulates coordination and proprioception. Both are skills necessary to navigate the world confidently and to achieve physical confidence. The lovely rubber seating points and the inclined beams are great for meeting and exchanging. Their bouncy or inclined character make them a constant balance and muscle trainer, even when seated.

When climbing through the Parkour 4 children train their cooperation and turn-taking skills. These skills are difficult to teach, but they are easily learned in play.



# PARKOUR 4

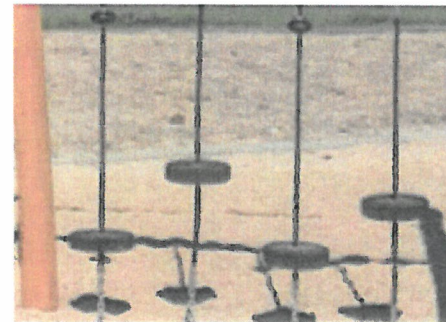
NRO854



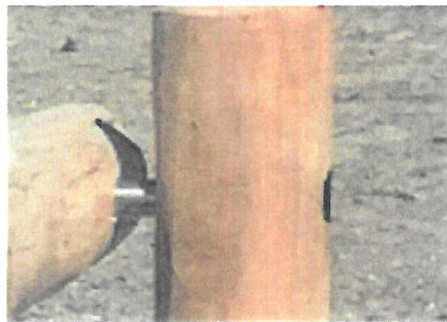
All Organic Robinia products by KOMPAN are made of 100% robinia wood from sustainable European sources. On request it can be supplied with 100% FSC™ certification.



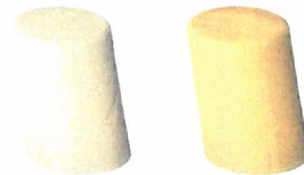
Nets and ropes are made of UV-stabilized PA with inner steel cable reinforcement. The rope is induction treated in order to create a strong connection between steel and rope which leads to good wear resistance.



Full colored EPDM rubber seats with smooth surface. The seats are molded on a hot dip galvanized steel inlay that ensures durable fixation to the rope.



The hardware is made of stainless steel or galvanized steel to ensure durable connections with a high corrosion resistance.



The Robinia wood can be supplied as untreated raw wood or painted with a brown colored transparent pigment that maintains the golden wood color of the wood.

Item no. NRO854-1001	
<b>Installation Information</b>	
Max. fall height	8'11"
Safety surfacing area	758.9 ft²
Numbers of Installers (persons)	2
Total installation time	11
Excavation volume	4.75 yd³
Concrete volume	0.51 yd³
Footing Depth (Standard)	3' 6"
Shipment Weight	1,164 lbs
Anchoring options	In-ground ✓ Surface ✓
<b>Warranty information</b>	
Stainless steel hardware	Lifetime
Robinia wood	10 Years
Rope	5 Years
EPDM seats	2 Years
Spare parts guaranteed	10 Years

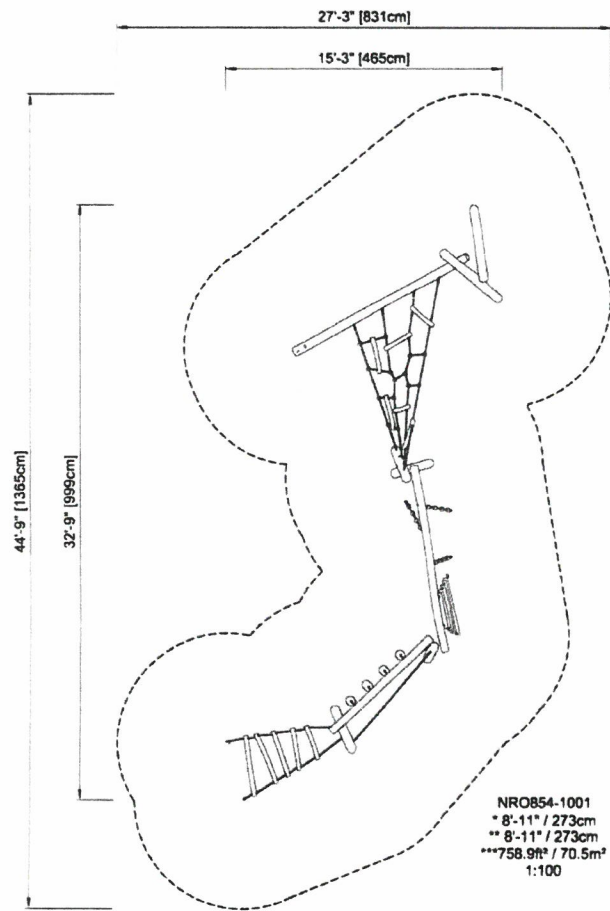
Elevated Activities 0	Accessible Elevated Activities	Accessible Ground Level Activities	Accessible Ground Level Play Types
Present	0	4	2
Required	0	2	2

# PARKOUR 4

NRO854



\*Max fall height| \*\*Total height| \*\*\*Safety surfacing area



[Click to see 1:100 ratio TOP VIEW](#)

3 / 30-01-2020

\*Max fall height| \*\*Total height



[Click to see 1:100 ratio SIDE VIEW](#)

Data is subject to change without prior notice.

# PARKOUR 4

NRO854



## Top rope

**Physical:** The top rope adds support when balancing on the beam. This trains the dexterity, hand and arm muscles.



## Parkour climbing knots

**Physical:** the small knots add support for hands and feet when clinging onto the rope, crawling up or down. This trains the spatial awareness, the cross-coordination and all muscle groups.

**Social-Emotional:** the ropes take cooperation when passing other children.



## Twisted climbing net

**Physical:** the twisted, transparent climb trains cross-coordination as well as sense of balance and space. Core, leg and arm muscles are trained, too. These motor and muscle skills are crucial to e.g. prevent falling when doing vigorous physical activity.

**Social-Emotional:** the twisted shape creates varied seating possibilities and interaction from one side to the other. This trains empathy and cooperation.



## Boarding net

The inclined net supports the upward climbing movement of the body.

**Physical:** cross-coordination, balance and physical strength, when climbing.



## Parkour ropes

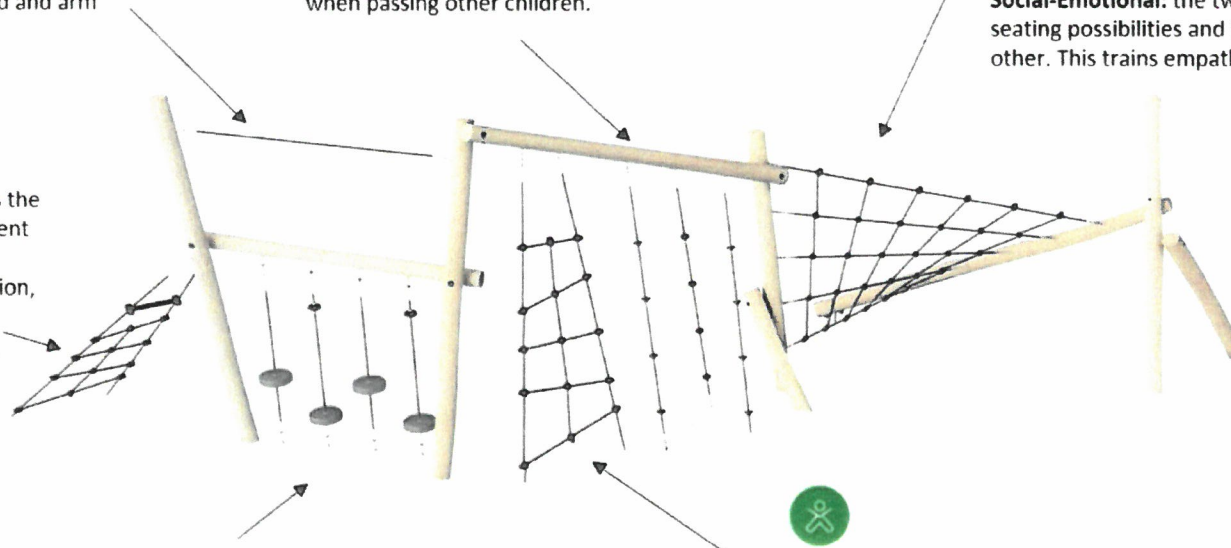
**Physical:** the big rubbery are great supports for the feet when climbing or crossing the module. This trains cross-coordination, sense of balance and arm and leg muscles. This combination adds to the child's general body adeptness and awareness, adding security to its movements, e.g. in traffic.

**Social-Emotional:** the seats make a nice destination and meeting point and take cooperation when crossing past others on the way through the module.



## Climbing net

**Physical:** climbing on this net trains cross-coordination. Due to the inclined horizontal rungs, balance and proprioception are trained, too. These physical skills add to self awareness and helps when judging your body in time and space, a crucial skills for instance in managing traffic safely.



# PARKOUR 4

NRO854



**PHYSICAL**  
Joy of movement:  
motor skills, muscle, cardio  
and bone density



**SOCIAL-EMOTIONAL**  
Joy of being together:  
teamwork, tolerance and  
sense of belonging



**COGNITIVE**  
Joy of learning:  
curiosity, understanding of causal  
relationships and knowledge of the world



**CREATIVE**  
Joy of creating:  
co-creation and experimenting  
with materials



**BALANCE**  
To balance is to stay upright when walking or standing on a surface that makes this challenging (e.g. a wobbly, inclined, or narrow surface).



**BOUNCE**  
To bounce is the act of bouncing on a responsive, flexible, elastic or tensile surface.



**CLIMB**  
To climb is the act of moving upwards, cross-coordinating arms and legs, on a vertical or inclined surface or net.



**CONSTRUCT**  
To construct is the act of creating new patterns, shifting items or materials to new positions or constructing with materials that can be transformed or manipulated.



**CRAWL**  
To crawl is the movement of moving forwards or backwards, cross-coordinating arms and legs, on a horizontal or slightly inclined surface.



**DRAMATIC PLAY**  
Dramatic play is motivated through play items that stage a frame, place or environment for acting out make believe or role play scenarios.



**GLIDE**  
To glide is the act of moving from one point to another without shifting the feet, in a horizontal or vertical movement, in a seated, lying or standing position, letting gravity do the work.



**Overhead HANG**  
Overhead hang is the act of carrying the body with the hands or arms, possibly to traverse to another platform or play item.



**JUMP**  
To jump is the act of jumping up or down on a hard surface.



**PULL**  
To pull is the act of pulling an item towards you or you towards an item with one or both hands, or possibly using the entire body.



**PUSH**  
To push is the act of pushing an item away from you with one or both hands, possibly with the entire body.



**ROCK**  
To rock is the action of rocking back and forth, or sideways, e.g. on a piece of spring equipment.



**ROTATE**  
To rotate involves a vertical or horizontal slower paced turn of the body, facilitated by a piece of equipment.



**RULE PLAY**  
Rule play is motivated through play items that suggest games-with-rules, cooperation and team work, e.g. tic-tac-toe, timers or ball games.



**SENSORY**  
To sense is the act of taking in information with the sensory system: seeing, feeling, hearing or sensing with the body.



**SLIDE**  
To slide is the act of moving fast downwards seated on a slide.



**SOCIALIZE**  
To socialize is the act of meeting, communicating or cooperating in an activity that stimulates and facilitates social interaction.



**SPIN**  
To spin involves a fast, repeated horizontal or vertical turn of the body on a piece of equipment that facilitates the movement.



**SWAY**  
To sway is the movement of swaying back and forth, or around, lying, seated or possibly standing, in a pendulant or circular movement, e.g. on a hammock or on a rope.



**SWING**  
To swing is the movement of swinging back and forth, or in circular movement, seated, standing or lying, in an un hindered arc.



**WONDER**  
To wonder is motivated through play items that make children need and use their logical, abstract or creative thinking skills, as well as their memory.

# SIX-SIDED CLIMBING STRUCTURE

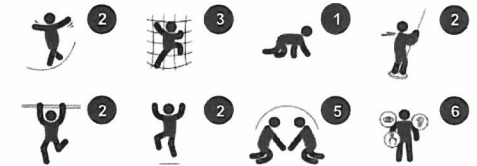
NRO816



#6



Item no. NRO816-1003	
<b>General Product Information</b>	
Dimensions LxWxH	19'4" x 14'2" x 9'2"
Age Group	5-12
Play Capacity	20 children
Color Options	



The six-sided climbing structure with its rich variety of climbing and crawling is a huge attraction for children. The many different ways of climbing and sliding must be tried out, which make the children stay longer and want to come back. The inclined climbing nets make challenging climbs to the top due to their non-horizontal steps. The climbing wall offers a

vertical climb with an entrance to the top horizontal net either over the top or through the hole. The varied body positions demanded to manage the climb train the child's proprioception, balance coordination and spatial awareness. These motor skills aid concentration and the ability to sit still. The fireman's pole and the banister bars are risk

taking activities that tickle the stomach and train spatial awareness, necessary for judging distances. The structure is a great active meeting point.



# SIX-SIDED CLIMBING STRUCTURE

NRO816



All Organic Robinia products by KOMPAN are made of 100% robinia wood from sustainable European sources. On request it can be supplied with 100% FSC™ certification.



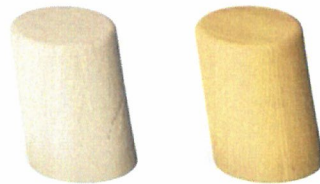
Nets and ropes are made of UV-stabilized PA with inner steel cable reinforcement. The rope is induction treated in order to create a strong connection between steel and rope which leads to good wear resistance.



Climbing wall panel of 3/4" EcoCore™. EcoCore™ is a highly durable, ecofriendly material, which is not only recyclable after use, but also consists of a core produced from 100% recycled material.



The hardware is made of stainless steel or galvanized steel to ensure durable connections with a high corrosion resistance.



The Robinia wood can be supplied as untreated raw wood or painted with a brown colored transparent pigment that maintains the golden wood color of the wood.

Item no. NRO816-1003	
<b>Installation Information</b>	
Max. fall height	9'2"
Safety surfacing area	659 ft²
Numbers of Installers (persons)	2
Total installation time	21
Excavation volume	3.45 yd³
Concrete volume	0.2 yd³
Footing Depth (Standard)	3' 3"
Shipment Weight	1,950 lbs
Anchoring options	In-ground ✓ Surface ✓
<b>Warranty information</b>	
Panel	Lifetime
Stainless steel hardware	Lifetime
Robinia wood	10 Years
Rope	5 Years
Spare parts guaranteed	10 Years

Elevated Activities 0	Accessible Elevated Activities	Accessible Ground Level Activities	Accessible Ground Level Play Types
Present	0	7	3
Required	0	3	3



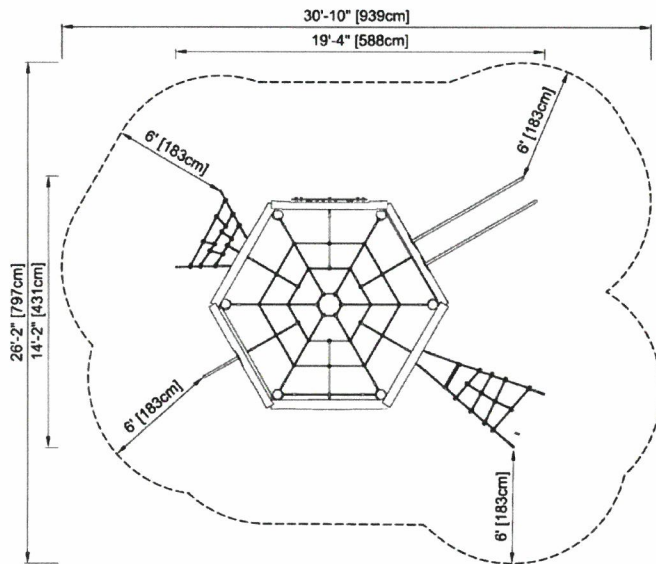
# SIX-SIDED CLIMBING STRUCTURE

NRO816

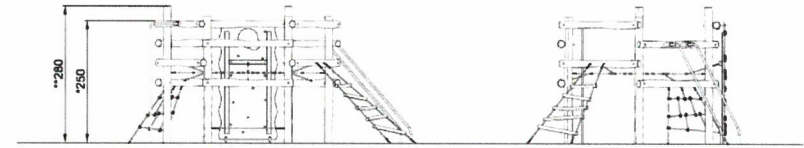


\*Max fall height | \*\*Total height | \*\*\*Safety surfacing area

\*Max fall height | \*\*Total height



NRO816-1003  
 \* 9'-2" / 280cm  
 \*\* 9'-2" / 280cm  
 \*\*\* 659ft<sup>2</sup> / 61.2m<sup>2</sup>  
 1/8" = 1'-0"



NRO816-1001  
 1:100

[Click to see 1:100 ratio TOP VIEW](#)

[Click to see 1:100 ratio SIDE VIEW](#)

# SIX-SIDED CLIMBING STRUCTURE

NRO816



## Horizontal spider net

**Physical:** crawling the net trains cross-coordination. Jumping down is good for bone density.

**Social-Emotional:** place to meet and hang for many children seated, lying or hanging.



## Climbing wall

**Physical:** cross-coordination, gross- and fine motor strength from climbing. Climbing through the hole or over the top beam demands good spatial awareness and involves risk taking.



## Banister Bars

**Physical:** balance, spatial awareness and coordination are trained when going down, as well as arm, leg and core muscles when holding tight. Jumping off trains the bone density, which is built for life in early childhood.

**Social-Emotional:** turn-taking and risk-taking.



## Climbing net

The inclined net supports the upward climbing movement of the body.

**Physical:** cross-coordination, balance and physical strength, when climbing.



## Boarding net

The inclined net supports the upward climbing movement of the body.

**Physical:** cross-coordination, balance and physical strength, due to big steps when avoiding the inclined rungs to have faster access via the horizontal ones.



## Fireman's pole

The fireman's pole is a dare-devil egress.

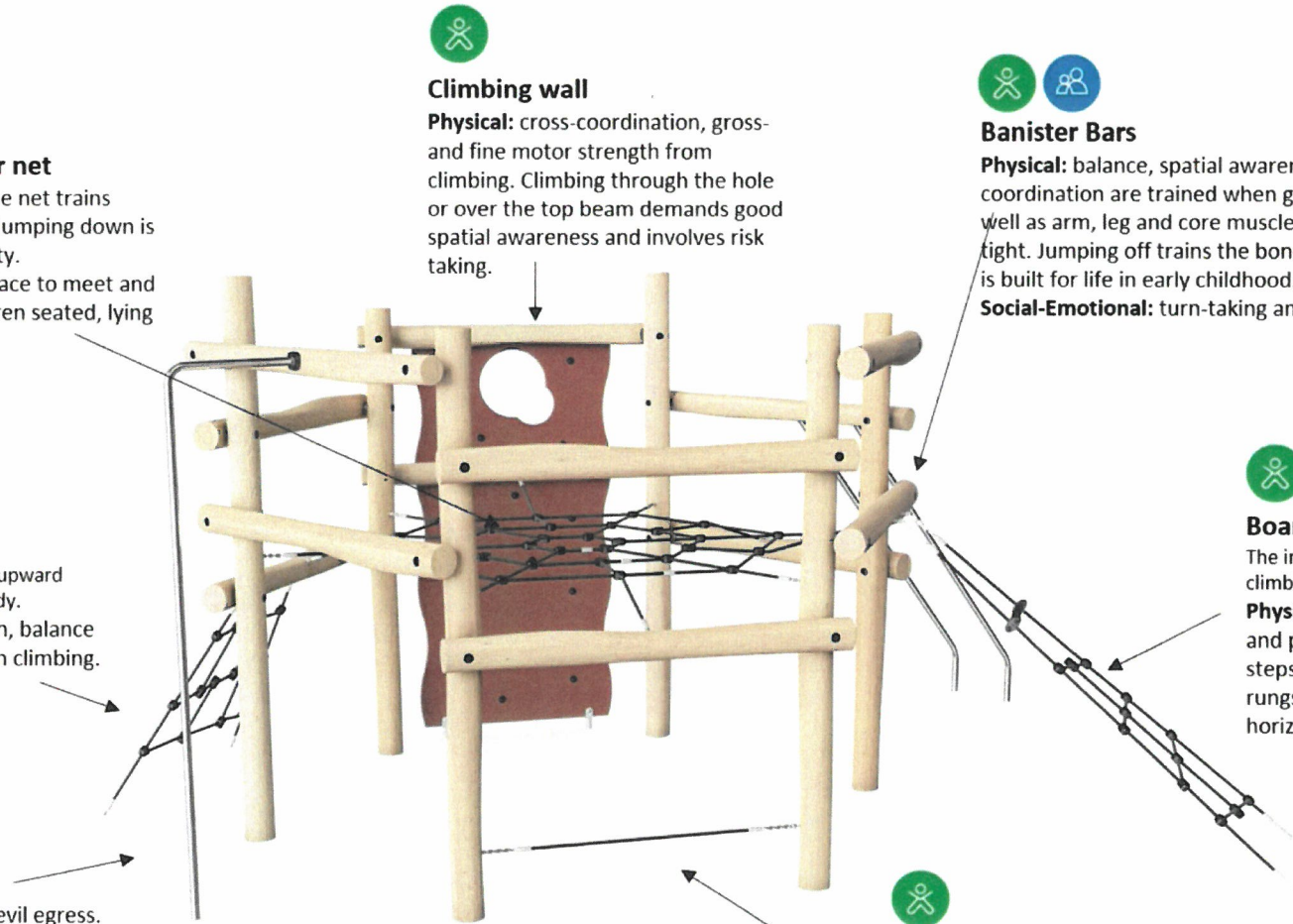
**Physical:** balance, spatial awareness and coordination are trained when going down, as well as arm, leg and core muscles when holding tight. Jumping off trains the bone density, which is built for life in early childhood.

**Social-Emotional:** turn-taking and risk-taking



## Rope

**Physical:** sense of balance, which is good for the ability to e.g. sit still or concentrate



# SIX-SIDED CLIMBING STRUCTURE

NRO816



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Joy of movement:  
motor skills, muscle, cardio  
and bone density



**SOCIAL-EMOTIONAL**  
Joy of being together:  
teamwork, tolerance and  
sense of belonging



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Joy of learning:  
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Joy of creating:  
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**WONDER**  
To wonder is motivated through play items that make children need and use their logical, abstract or creative thinking skills, as well as their memory.

A young child with light hair is climbing a wooden play structure. The child is wearing a light blue t-shirt and dark pants. The structure is made of thick, natural wood logs. The background shows lush green trees and a clear blue sky, suggesting a park or natural setting. The lighting is bright and natural, indicating it's daytime.

**NATURE ROBINIA**  
*a natural approach*

### General description of the robinia.

Robinia is like any other wooden specie, a natural and organic material. Potentially robinia contains a number of branch knots, wind scratches, openings in the surface and other patinas. The expression of the robinia changes according to the condition of weather and humidity. That's not necessarily a weakness but obviously a natural approach which gives our playground equipment the benefit of an ecological and adventurous design.

Compared to non organic materials robinia provide the user an explorative experience, and opens the gate to an imaginary world. Children discover and learn from the organic variation in wooden species, and contains the abilities of using the natural elements in the play.

For instance a branch knot is rapidly transformed into a "press the button" or "an eye watching you".



The huge tension in robinia causes endopenings in the wood as well as openings alongside the post. That does not affect the strength of the structure and does not cause any additional risk of attack from rot and fungus. This is just a natural reaction that might appear on robinia and is normally not a safety and quality issue. During routine inspection and maintenance, severe deformation must be taken into consideration, when appearing on vital areas inside the play structure. E.g. if an opening appears nearby a unit causing a forced movement (slides, firemans pole, etc) and a risk of entrapment occur, it is important to react. The issue of openings and wind scratches is taken into consideration according to current safety standards on the specific market. If a wooden deformation does not conflict with the current safety standard, it is considered a beneficial property provided by the organic wooden specie – robinia!

### Cracks and openings

Cracks along the lines of the posts are to be expected to a certain degree, depending on changes in humidity and temperature.



Minor cracks does not affect the strength of the wood and will not require any action. In the event that they conflict with the allowed tolerances described in current safety standards or any other local regulations a repair is necessary according to the maintenance instruction.

### Knots

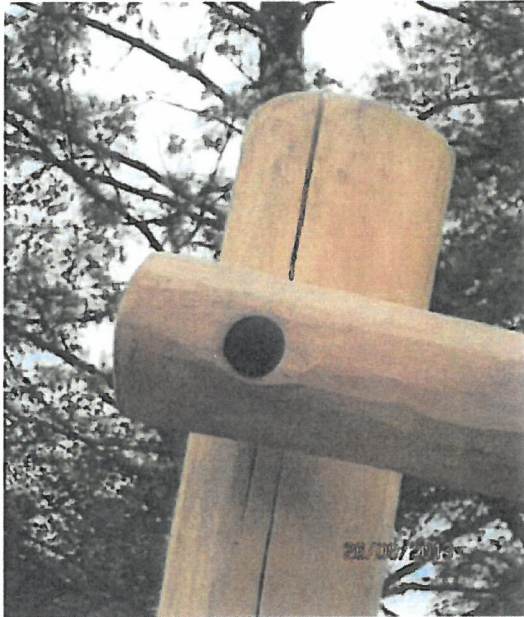
Knots occur as a natural part of robinia wood, this is where the branches have been attached to the timber while it's been growing. During the production all posts are carefully inspected, and damages, wounds and repairs are rejected from production site.



If healthy knots are removed or fall out over time, the hole might need an action according to the maintenance instruction. This should be checked as part of the routine inspection.

*Following is what might appear as a natural approach from the robinia.*

## ACCEPTABLE BEHAVIOUR



Cracks and openings is a natural appearance and is unavoidable on any wooden specie. As long as the crack or opening does not conflict with the current safety standards, or constitute any potential risk of entrapment or weakening of the integrity, it is an expectable and accepted behavior of the robinia wood.

Minor wounds and knots on the surface of the robinia is acceptable and unavoidable. As long as it does not conflict with the current safety standards, or weakening the integrity of the product it is allowed and expectable. Cosmetic issues will be managed during the process of production.

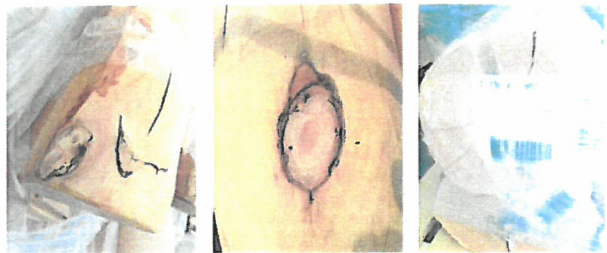
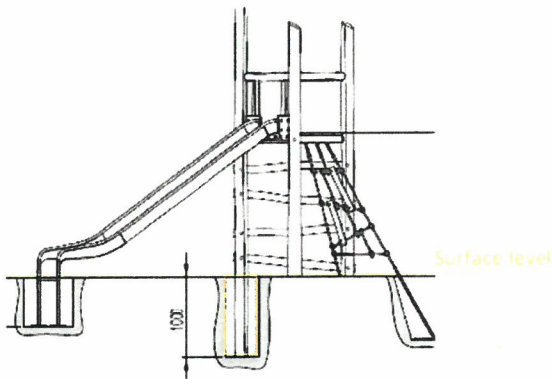


**Wooden deformation below surface level**

Wounds, cracks, openings and surface rot does not affect the strength of the posts, and are allowed below surface level. During production any deformation are carefully evaluated, and often accepted if it appear as installed in ground.

**ACCEPTABLE BELOW SURFACE**

Below surface level we have no requirements to the robinia.



*During production and internal quality inspection is carried out. We evaluate the quality and defects on raw material. Following issues are not accepted from production site, unless they are below surface level.*

## NOT ACCEPTABLE ISSUES



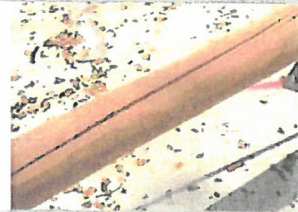
Large wounds containing potential risk of entrapments within short time. Cosmetic deterioration is a production evaluation.

Repairs contains a specific risk of falling out, and leave an entrapment.



Severe rot inside the posts or beams contains a potential risk of entrapments over time.

Cracks and openings are only accepted if they do not contain a potential risk of entrapments, according to current safety standards. Normally an opening goes from outside and in to the middle of the post, and leaves a V-shaped opening, which **not** contain a risk of entrapment.



Large openings with potential risk of effecting brackets or connections are not accepted if it influence the integrity of the equipment.

Cracks from end to end influence the integrity and is not acceptable.





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## ROBINIA

### ROBINIA:

#### Wood

Posts, crossbars and other un-fabricated parts are made from de-barked and sap free Robinia trunks in various dimensions. Robinia is a native European wood specie with high strength and natural durability in various climatic conditions. The low degree of fabrication allow for a very natural look leaving posts bend and winding in some degree. Basic lines however are cut to meet safety requirements of EN1176.

KOMPAN uses wood from FSC-certified sources

Climbing walls are made from weather resistant plywood coated with anti-slip film on both sides.

#### Metal

Slides, fireman's poles, handles, spacers, chains and bars are made from stainless steel,.

Brackets, support legs and chains are hot dip galvanized steel tested for compliance with US CPSIA requirements regarding lead content as well as the European Standard EN 71-3 regarding migration of unwanted substances.

Springs are made of steel qualities that meet DIN 17221. The springs are subjected to shot peening to prevent crack formation and fatigue fracture. Spring durability and expected life in use are tested on a sampling basis to ascertain that the spring will function after more than 5 years of normal use. Springs are fitted with patented anti-pinch clamps of cast nylon

#### Rope

Nets and ropes – Nets and ropes are made of UV-stabilized PP (polypropylene) with inner steel cable reinforcement. Ultimate tensile strength of the rope is at least 2,500 kg. The net connectors are KOMPAN-designed and made from a specially formulated injection-molded PA (polyamide) in order to perform the maximum strength and UV stability. Nets and ropes are equipped with stainless steel chains in the end for adjustment due to variation in Robinia dimensions.

#### Plastic

Panels for decoration and attachment of slides are made of 19mm EcoCore™. EcoCore™ is a highly durable, ecofriendly material, which is not only recyclable after use, but also consists of a core produced from 100% recycled material. The core has a thickness of 15mm and representing 80% of the total material.

Net connectors, handles and plugs are pressure molded Polyamide PA.

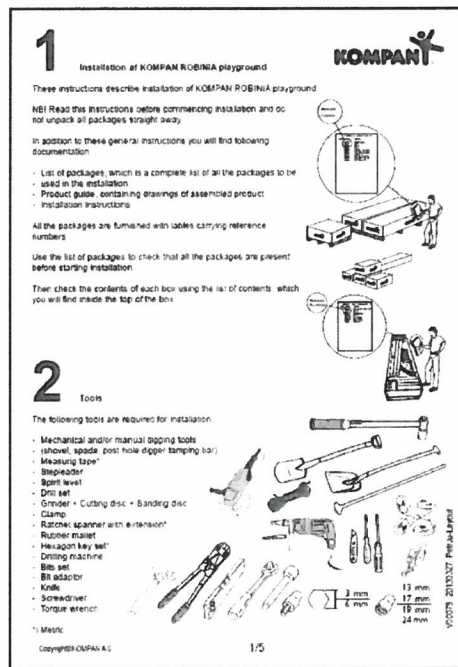
Swing seats, spring inserts, dampers for seesaws and manipulative items are made from synthetic rubber (PUR, TPE, EPDM and SBR). Swing seats are tested to meet the impact criteria of EN1176 as well as ASTM F 1487.

Sunshades are made of 100 pct. off white polyester. The fabric are Tested and certified according to UV standard 801.

**Installation:**

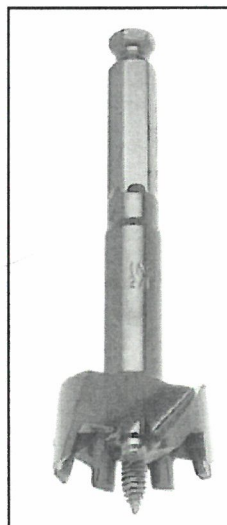
When installing robinia it's important to be well prepared. For easier approach on installation Kompan carried out a general description showing what's important when preparing the installation.

Most of the tools needed during installation are standard devices and available in almost any tool shop. Notice though, that special tool are needed additionally during most installations.

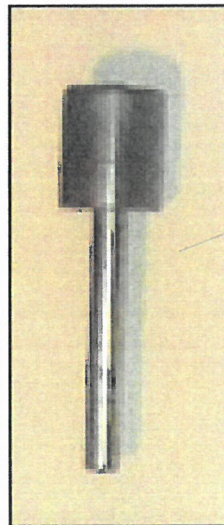


The special tool 34 mm. wood drill and lead tap are often used when countersink drilling on site. These are available at Kompan by ordering from the item number shown below.

*Item no. A173094-XX  
38 mm. Countersink drill*



*Item no. A173095-XX  
Lead tap*



Family: FABACEAE (angiosperm)

Scientific name(s): Robinia pseudoacacia

Commercial restriction: no commercial restriction

Note: Coming from East of USA, ROBINIA was introduced in Europe by Jean ROBIN in the 17th century. ROBINIA is frequently called "Acacia" which is source of mistake. The name "Acacia" must be used only for woods of the "Acacia" genus (tropical species). Some of them, coming from plantations are arriving on the European market today (i.e. ACACIA MANGIUM, cf. corresponding sheet).

## WOOD DESCRIPTION

Color: yellow brown  
 Sapwood: clearly demarcated  
 Texture: coarse  
 Grain: straight  
 Interlocked grain: absent

Note: Yellow to greenish yellow when freshly cut, heartwood comes darker and rapidly takes a golden brown shade sometimes quite dark.

## LOG DESCRIPTION

Diameter: from 15 to 50 cm  
 Thickness of sapwood:  
 Floats: pointless  
 Log durability: good

## PHYSICAL PROPERTIES

Physical and mechanical properties are based on mature heartwood specimens. These properties can vary greatly depending on origin and growth conditions.

	Mean	Std dev.
Specific gravity *:	0,74	
Monnin hardness *:	9,5	
Coeff. of volumetric shrinkage:	0,40 %	
Total tangential shrinkage (TS):	6,9 %	
Total radial shrinkage (RS):	4,4 %	
TS/RS ratio:	1,6	
Fiber saturation point:	30 %	

Stability: moderately stable to poorly stable

## MECHANICAL AND ACOUSTIC PROPERTIES

	Mean	Std dev.
Crushing strength *:	70 MPa	
Static bending strength *:	126 MPa	
Modulus of elasticity *:	16900 MPa	

(\*: at 12% moisture content, with 1 MPa = 1 N/mm<sup>2</sup>)

## NATURAL DURABILITY AND TREATABILITY

Fungi and termite resistance refers to end-uses under temperate climate. Except for special comments on sapwood, natural durability is based on mature heartwood. Sapwood must always be considered as non-durable against wood degrading agents.  
 E.N. = Euro Norm

Funghi (according to E.N. standards): class 1-2 - very durable to durable

Dry wood borers: durable - sapwood demarcated (risk limited to sapwood)

Termites (according to E.N. standards): class D - durable

Treatability (according to E.N. standards): class 4 - not permeable

Use class ensured by natural durability: class 4 - in ground or fresh water contact

Species covering the use class 5: No

Note: This species is listed in the European standard NF EN 350-2.

It is the only temperate hardwood introduced in Europe which naturally covers the use class 4.

According to the European standard NF EN 335, performance length might be modified by the intensity of end-use exposition.

## REQUIREMENT OF A PRESERVATIVE TREATMENT

Against dry wood borer attacks: does not require any preservative treatment

In case of risk of temporary humidification: does not require any preservative treatment

In case of risk of permanent humidification: does not require any preservative treatment

## DRYING

Drying rate: slow  
 Risk of distortion: high risk  
 Risk of casehardening: no  
 Risk of checking: high risk  
 Risk of collapse: no

Possible drying schedule: 6

M.C. (%)	Temperature (°C)		Air humidity (%)
	dry-bulb	wet-bulb	
Green	42	41	94
50	48	43	74
30	54	46	63
20	60	51	62
15	60	51	62

This schedule is given for information only and is applicable to thickness lower or equal to 38 mm.  
 It must be used in compliance with the code of practice.  
 For thickness from 38 to 75 mm, the air relative humidity should be increased by 5 % at each step.  
 For thickness over 75 mm, a 10 % increase should be considered.

## SAWING AND MACHINING

Blunting effect: normal  
 Sawteeth recommended: stellite-tipped  
 Cutting tools: tungsten carbide  
 Peeling: good  
 Slicing: good  
 Note: ROBINIA wood has a good aptitude for bending.

## ASSEMBLING

Nailing / screwing: good but pre-boring necessary  
 Gluing: correct  
 Note: Tends to split.

## FIRE SAFETY

Conventional French grading: Thickness > 14 mm : M.3 (moderately inflammable)  
 Thickness < 14 mm : M.4 (easily inflammable)

Euroclasses grading: D s2 d0

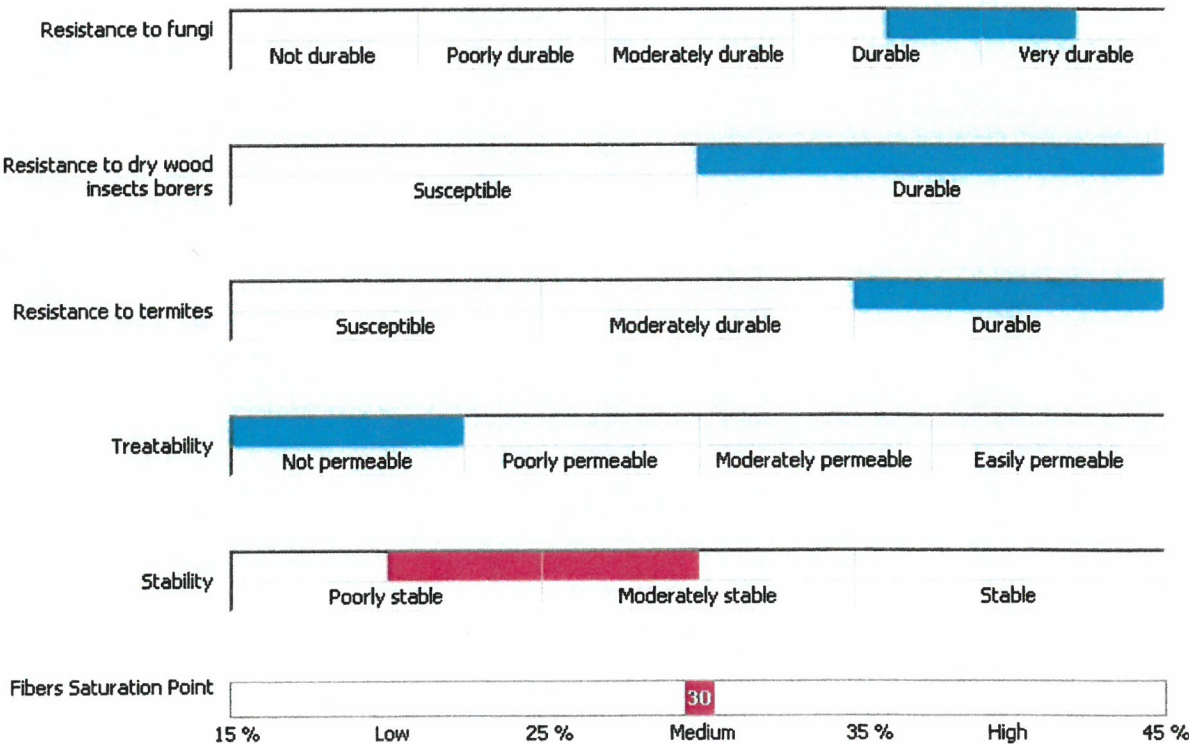
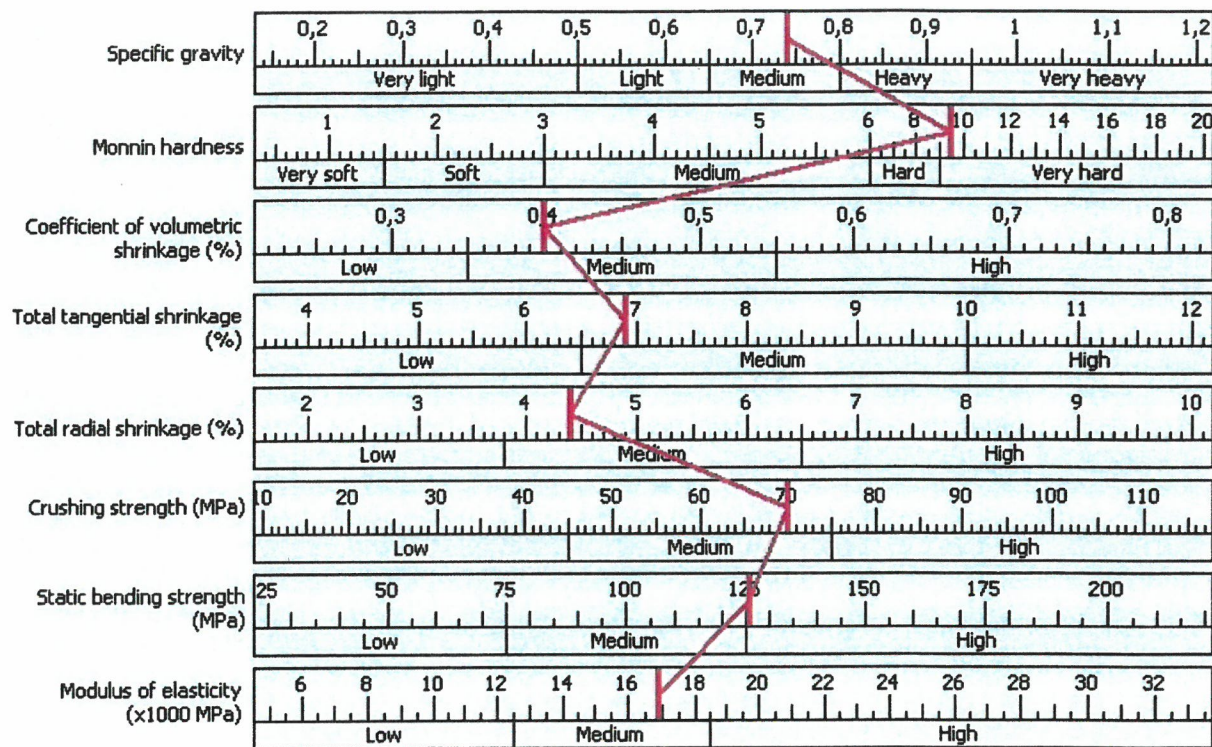
Default grading for solid wood, according to requirements of European standard EN 14081-1 annex C (April 2009). It concerns structural graded timber in vertical uses with mean density upper 0.35 and thickness upper 22 mm.

## END-USES

Stakes	Hydraulic works (fresh water)
Pit props	Exterior panelling
Ship building	Sliced veneer
Tool handles (resilient woods)	Wood-ware

## MAIN LOCAL NAMES

<u>Country</u>	<u>Local name</u>	<u>Country</u>	<u>Local name</u>
Germany (temperate timber)	FALSCHER AKAZIE	Germany (temperate timber)	ROBINIE
Spain (temperate timber)	ROBINIA	France (temperate timber)	ACACIA
France (temperate timber)	ROBINIER	Italy (temperate timber)	ROBINIA
United Kingdom (temperate timber)	FALSE ACACIA	United Kingdom (temperate timber)	ROBINIA
United States (temperate timber)	BLACK LOCUST		







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"Resilient Together!"

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