d e t s k é i h r i s k á

KSIL
2015

všetko, čo robíme, robíme pre deti...

DEXTRADE

Pre bezpečnosť detí je nevyhnutné dbať pri projektovaní, výstavbe a prevádzkovaní detského ihriska, na dodržiavanie tejto normy. Aj certifikovaný výrobok môže však byť pre dieťa nebezpečný:

- pokiaľ nie sú rešpektované pokyny výrobcu, týkajúce sa rozmiestnenia jednotlivých prvkov s prihliadnutím na bezpečnostné zóny,
- pokiaľ sa herný prvok nepoužíva v súlade s jeho určením,
- pokiaľ vek dieťaťa nezodpovedá zariadeniu, určenému pre jeho vekovú skupinu,
- pokiaľ zariadenie detského ihriska nie je pravidelne kontrolované a prípadné poškodenia nie sú okamžite odstránené.

Dôležitým faktorom pre zníženie rizika vzniku úrazu dieťaťa, je aj voľba správneho povrchu, tlmiaceho náraz. Rozhodujúcim pre výber správneho povrchu ihriska je možná výška pádu dieťaťa pri jednotlivých prvkoch zariadenia ihriska.

Podľa STN EN 1177 sú predpísané tieto druhy povrchov pre rôzne výšky pádu:

Materiál [a]	**Opis**	**Minimálna hĺbka** [b]	**Ktitická výška pádu**
	mm	mm	mm
Trávnik/ornica			≤ 1000 [d]
Kôra	Veľkosť častíc od 20 do 80	200	≤ 2000
		300	≤ 3000
Drevené štiepky	Veľkosť častíc od 5 do 30	200	≤ 2000
		300	≤ 3000
Piesok [c]	Veľkosť častíc od 0,2 do 2	200	≤ 2000
		300	≤ 3000
Štrk [c]	Veľkosť častíc od 2 do 8	200	≤ 2000
		300	≤ 3000
Iné materiály a iná hĺbka	Skúšané podľa HIC (pozri STN EN 1177)		Kritická výška pádu podľa skúšok

[a] Materiály, vhodne pripravené na používanie na detských ihriskách

[b] Pri sypkom časticovom materiáli sa pridá 100 mm k minimálnej hĺbke, aby sa kompenzovalo premiestňovanie materiálu (podľa STN EN 1176-1 čl. 4.2.8.5.1)

[c] Nijaké bahenné alebo ílovité častice. Veľkosť zŕn sa môže určiť použitím preosievacej skúšky, ako sa uvádza v EN 933-1

[d] Pozri poznámku 1 v STN EN 1176-1 čl. 4.2.8.5.2.

Pri plánovaní a výbere najvhodnejšej zostavy pre detské ihrisko je potrebné brať do úvahy viacero aspektov:

- špecifikácia krajiny, prostredia,
- sieť blízkych komunikácií,
- ochranné zóny,
- vekovú štruktúru detí,
- povrch,
- smer slnečných lúčov,
- estetické hľadisko.

Po vzájomnej konzultácií a zohľadnení aspektov navrhneme zákazníkovi rôzne varianty zostáv a riešení, vrátane spôsobu montáže.

Detské ihriská KSIL vynikajú svojou farebnosťou i typovou pestrosťou. Použitie tých najkvalitnejších materiálov pri ich výrobe, je základným predpokladom pre ich dlhú životnosť aj v tých najťažších klimatických podmienkach, ekologickú nezávadnosť a zvýšenú odolnosť voči vandalizmu.

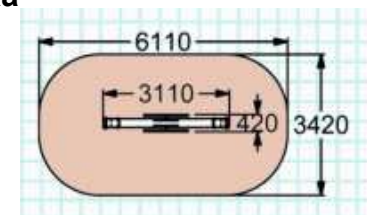
OBSAH

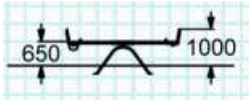
Hojdačky

preklápacie	3
pružinové	3 - 7
visiace	7
Kolotoče	8
Šmýkačky	8 - 10
Pieskoviská	10 - 11
Domčeky	12 - 13
Dopravné prostriedky	14 - 16
Kombinované zostavy od 3 do 7 rokov	17 - 21
Kombinované zostavy od 6 do 12 rokov	22 - 27
Kombinované zostavy pre deti s hendikepom	27
Gymcentrá 3 - 7 rokov	28 - 29
Gymcentrá 7 - 12 rokov	30 - 33
Športové náradia	34 - 35
Lanové prvky	36
Skate rampy	36
Záhradný nábytok	37 - 39
Doplnky pre ihriská	39 - 40
Workout	41 - 42
Realizácie	43
Materiály	44 - 45

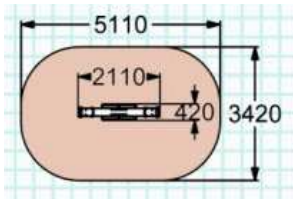
Hojdačky preklápacie

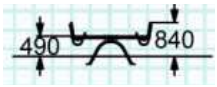
4101 "BALANS" veľká



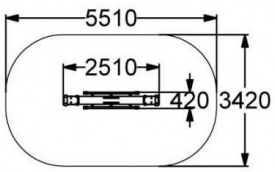


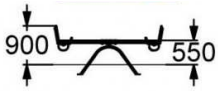
4102 "BALANS" malá





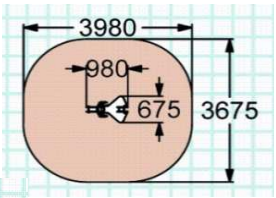
4104 "BALANS" stredná

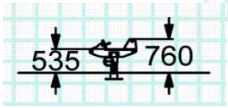




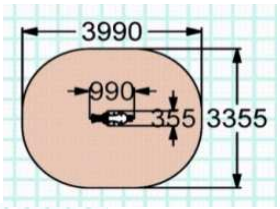
Hojdačky pružinové

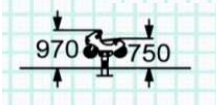
4111 Lietadlo



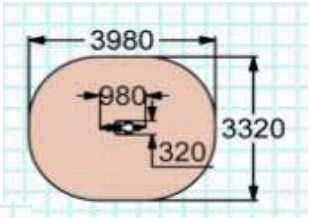


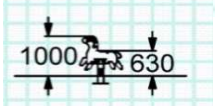
4112 Motorka



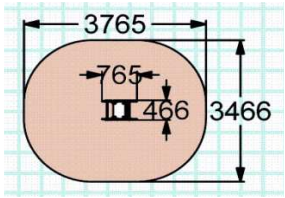


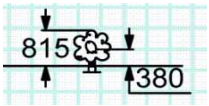
4113 Koník



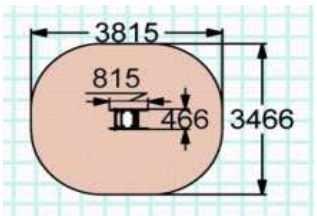


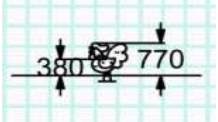
4114 Sedmokráska (harmanček)



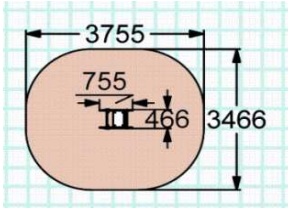


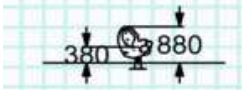
4116 Kohút





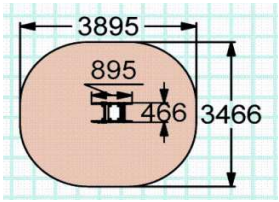
4117 Motýľ

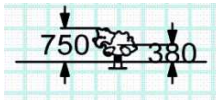




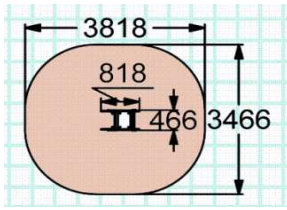
Hojdačky pružinové

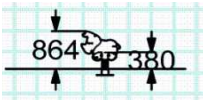
4119 Dinosaurus



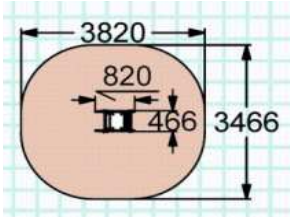


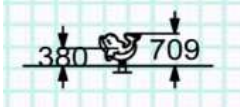
4120 Hroch



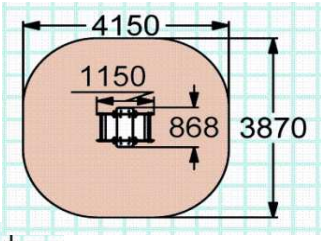


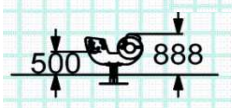
4121 Delfín



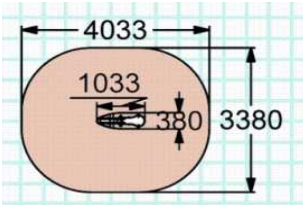


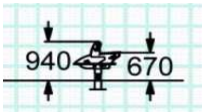
4122 Loď - dvojhojdačka



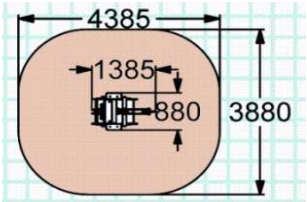


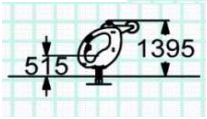
4124 Skúter



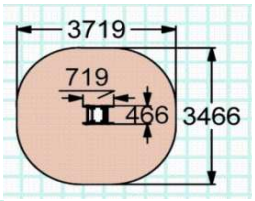


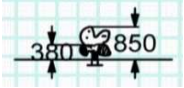
4125 Helikoptéra - dvojmiestna



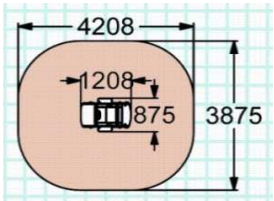


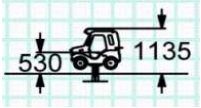
4126 Včielka



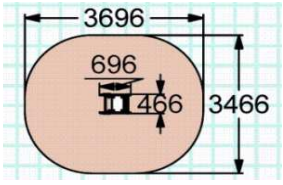


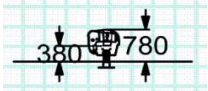
4128 Auto dvojmiestne



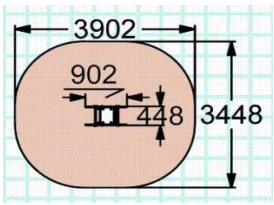


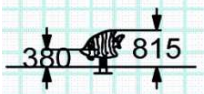
4129 Slon



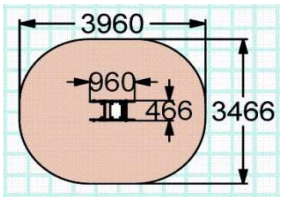


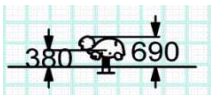
4130 Ryba



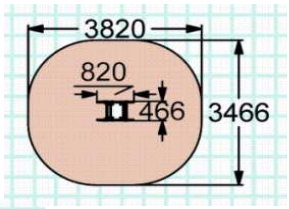


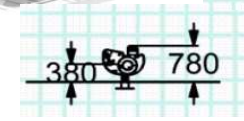
4131 Korytnačka



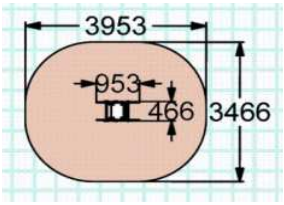


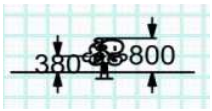
4132 Parník



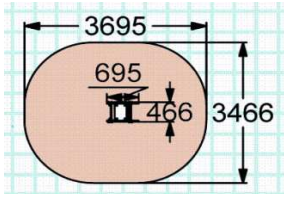


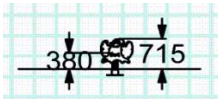
4133 Chobotnica



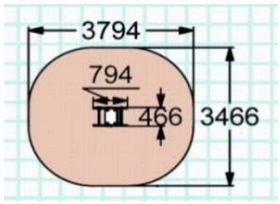


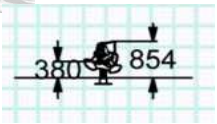
4134 Krab



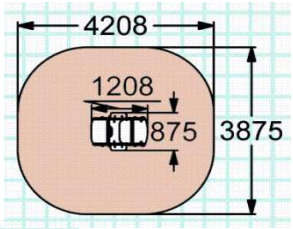


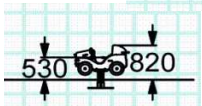
4135 Trpaslík



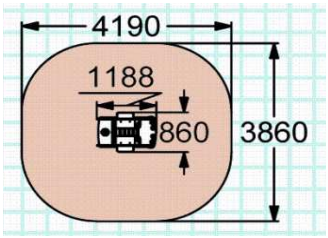


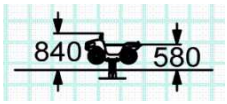
4136 Auto JEEP dvojmiestne



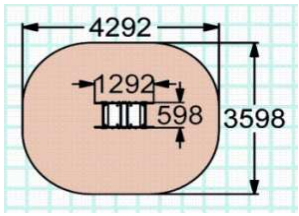


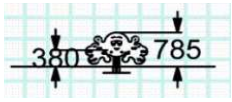
4137 Auto terénne - dvojmiestne



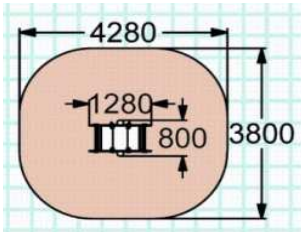


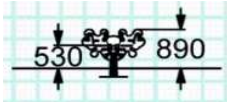
4138 Marťan I dvojmiestna



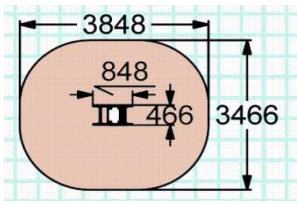


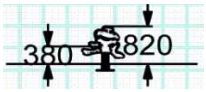
4139 Marťan II dvojmiestna





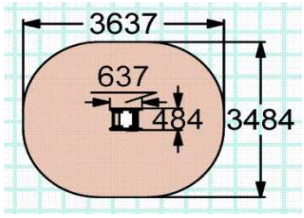
4140 Žabiak

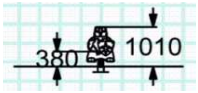




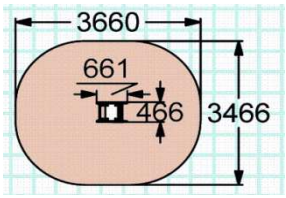
Hojdačky pružinové

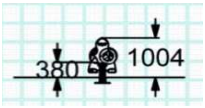
4161 Rytier



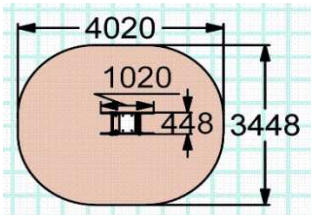


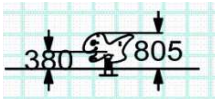
4162 Bohatier



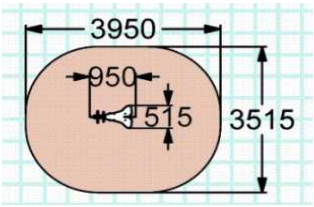


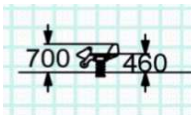
4164 Dinosaurus



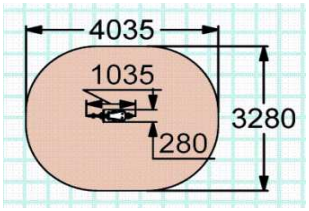


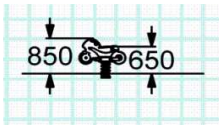
4165 Stíhačka



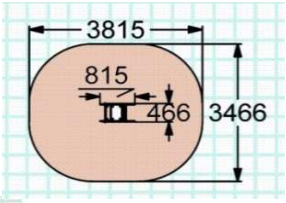


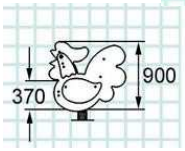
4166 Bicykel



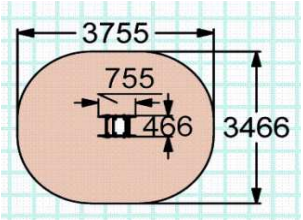


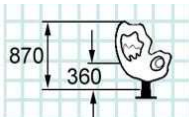
4167 Kohút



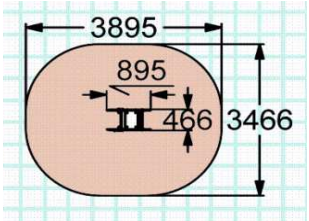


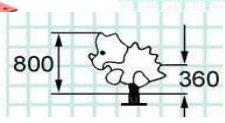
4168 Motýľ



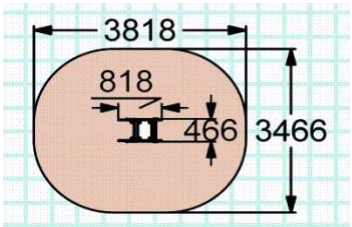


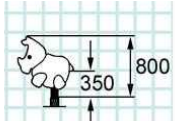
4169 Dinosaurus



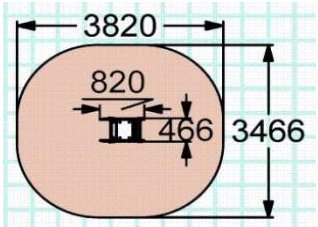


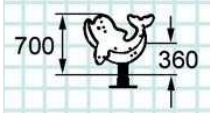
4170 Nosorožec





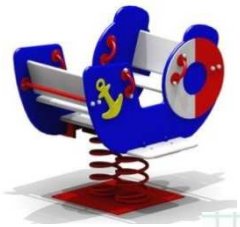
4171 Delfín

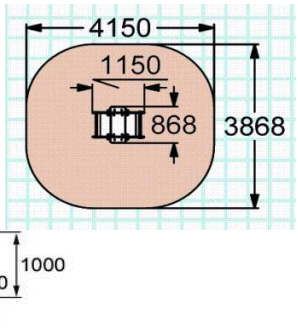




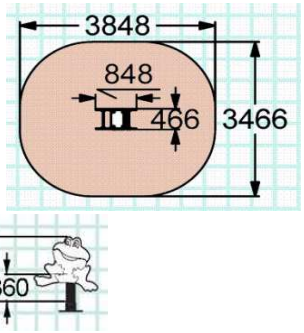
Hojdačky pružinové

4172 Loď dvojmiestna

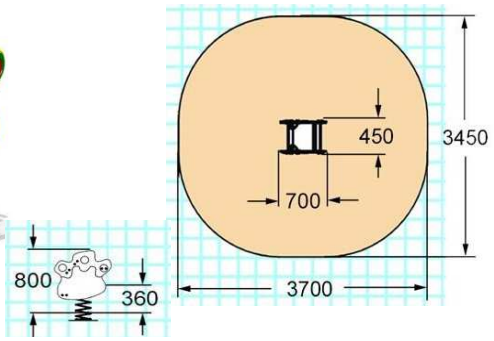




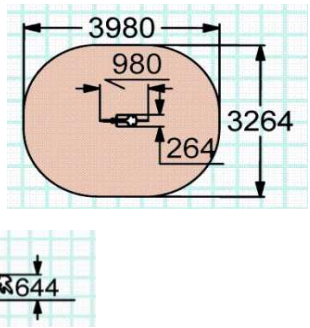
4173 Žabiak



4189 Kvietok

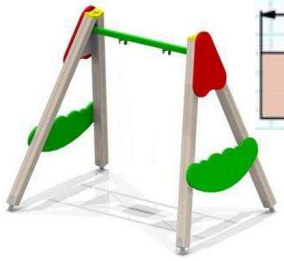


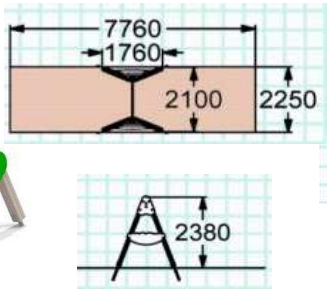
4190 Poník



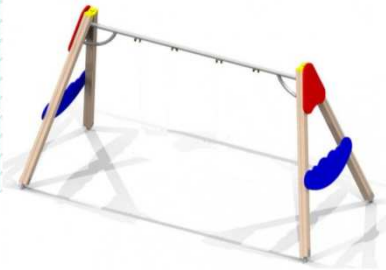
Hojdačky visiace

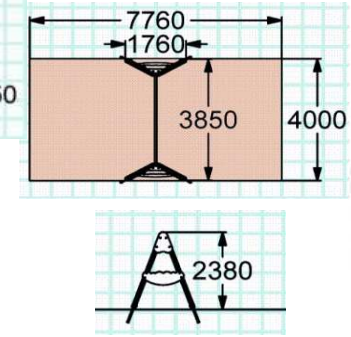
4141 Drevená veľká



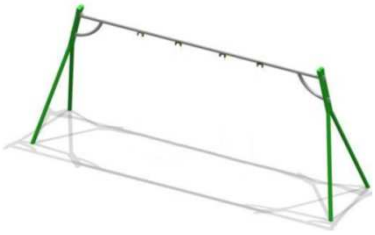


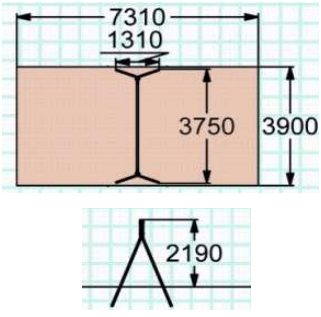
4142 Drevená veľká dvojitá



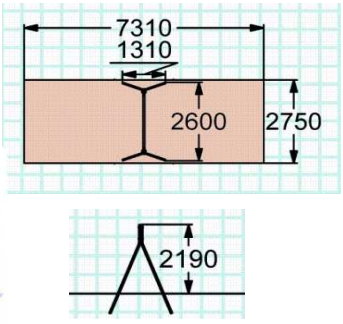


4155 Kovová veľká dvojitá

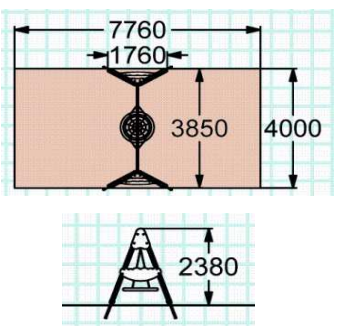




4156 KOVOVÁ veľká



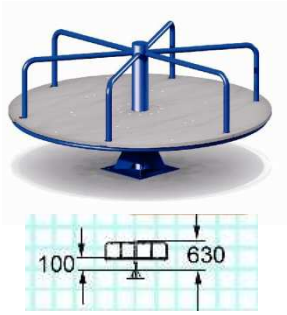
4157 DREVENÁ s košom

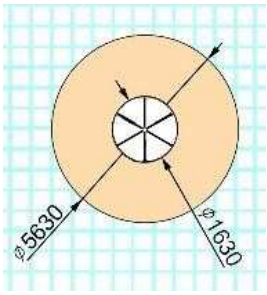


4968 sedáky 4969

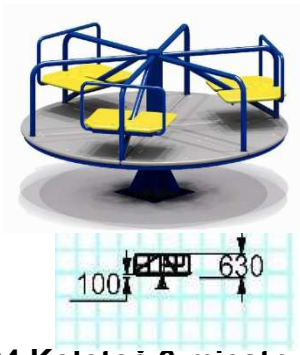
Kolotoče

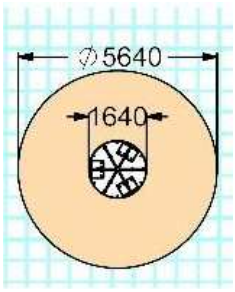
4191 Kolotoč viacmiestny



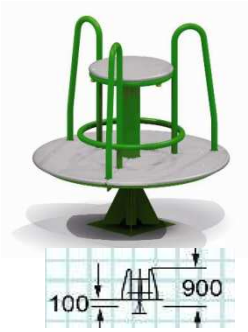


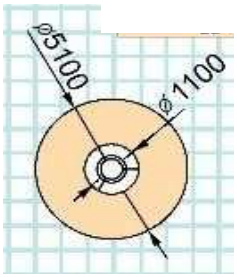
4192 Kolotoč 6-miestny



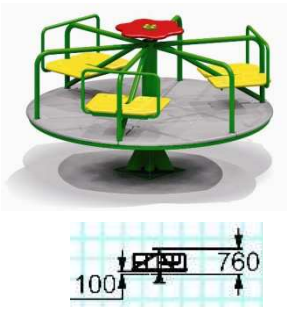


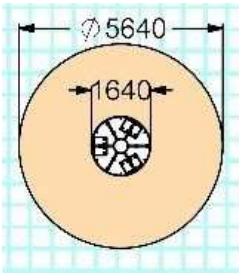
4193 Kolotoč 6



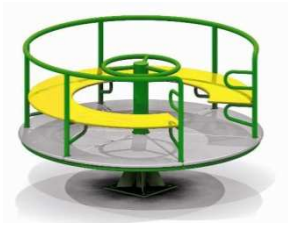


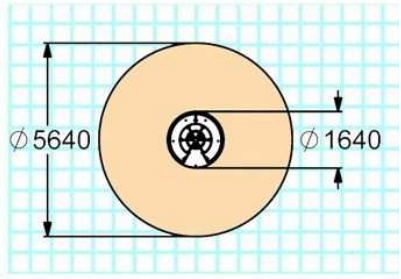
4194 Kolotoč 6-miestny s tanierom

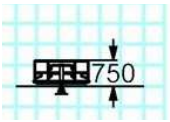




4195 Kolotoč lavicový

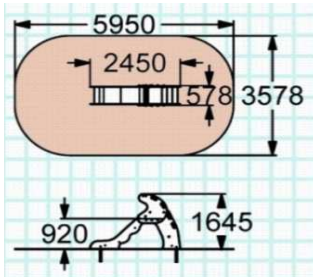




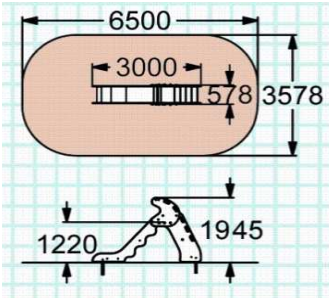


Šmýkačky

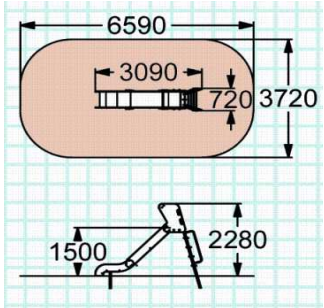
4201 Šmýkačka MINI malá



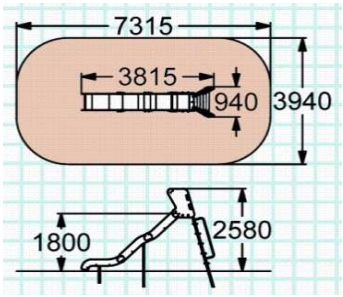
4202 Šmýkačka MINI veľká



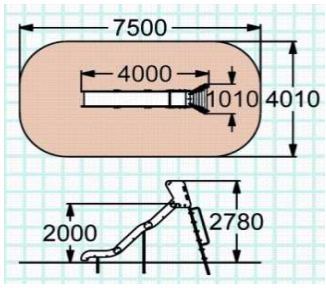
4203 Šmýkačka MIDI



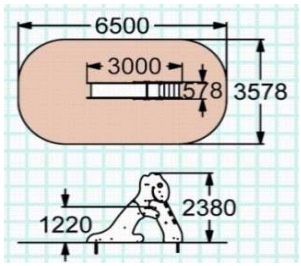
4204 Šmýkačka veľká



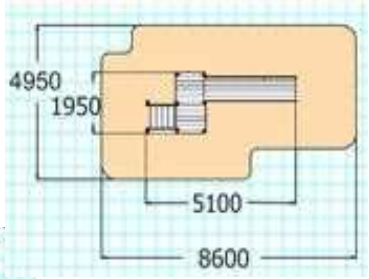
4205 veľká XL

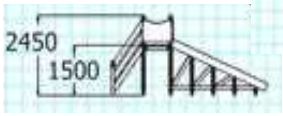


4206 Dinosaurus

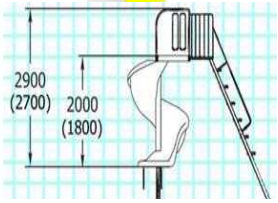


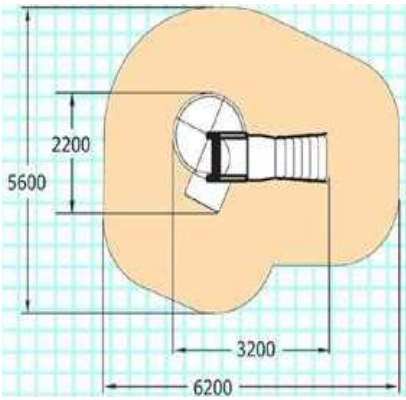
4207 Zimná



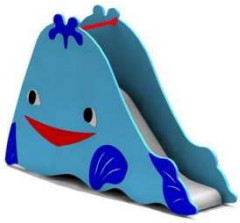


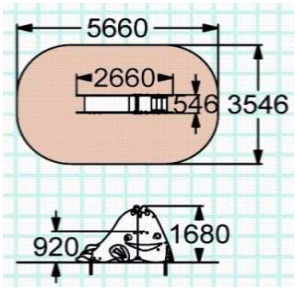
4210 Špirálovitá



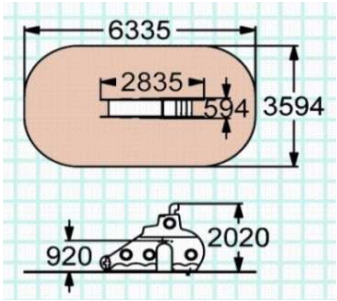


4213 Veľryba

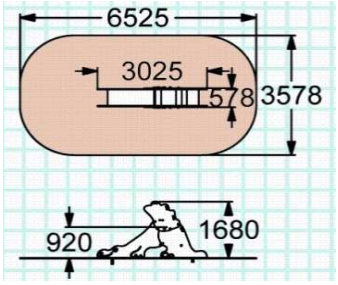




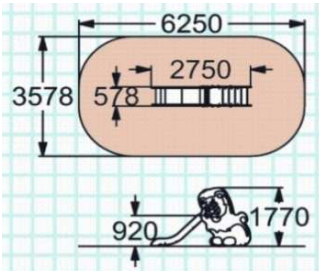
4214 Ponorka



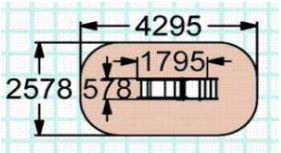
4215 Drak

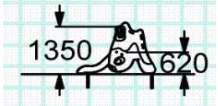


4216 Lev

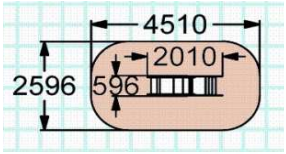


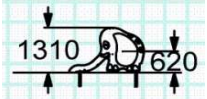
4217 Ryba

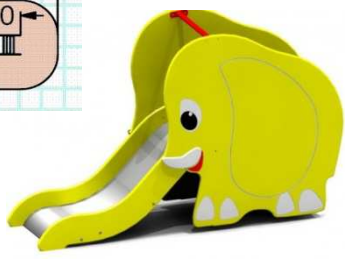




4218 Sloník

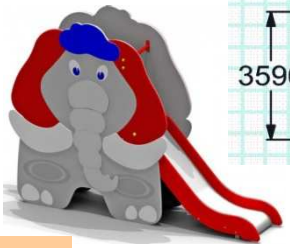


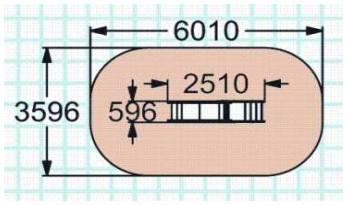


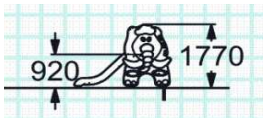


STN EN 1176

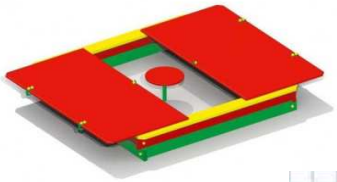
4219 Mamut

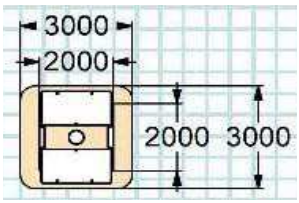


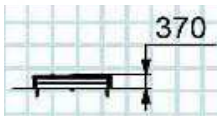




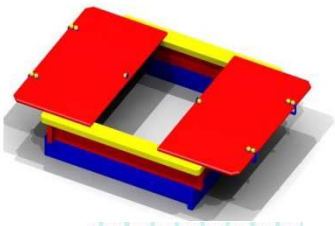
4236 Piekovisko s krytom a stolíkom

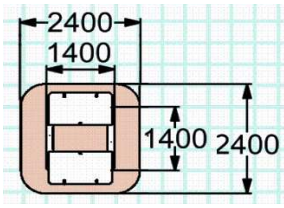


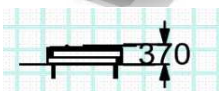




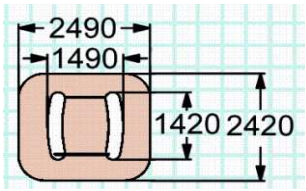
4237 Piekovisko s krytom

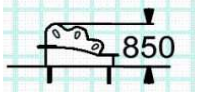




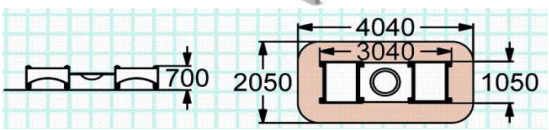


4238 Kvietok

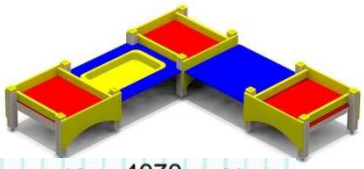


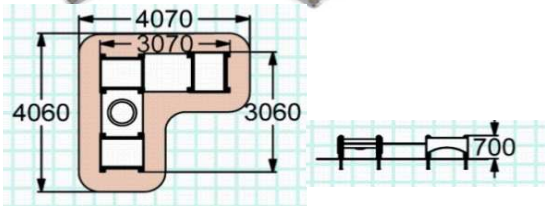


4239 Stolové pieskovisko priame

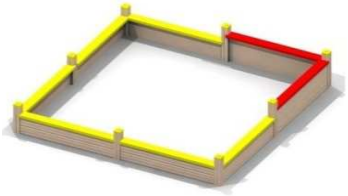


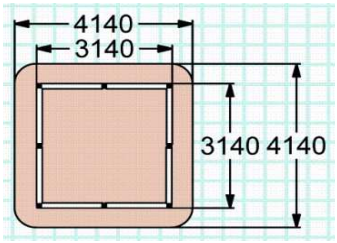
4240 Stolové pieskovisko rohové



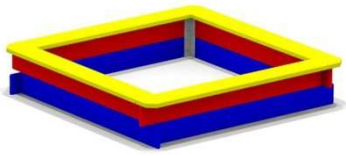


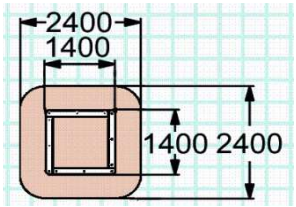
4241 Hradby

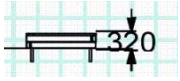




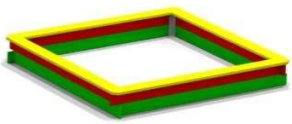
4242 Pastelky MINI

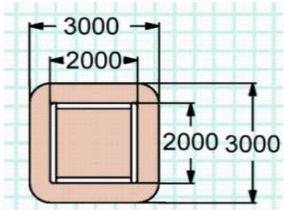


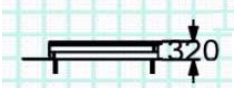




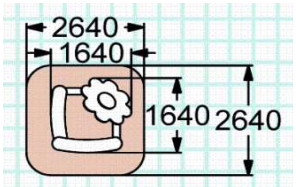
4243 Pastelky

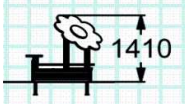




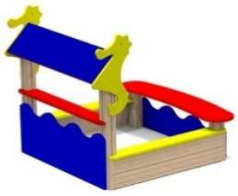


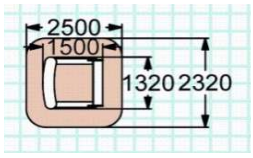
4250 Daisy

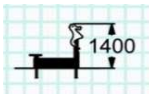




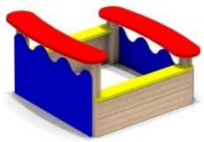
4251 Akvárium so strechou (4259)

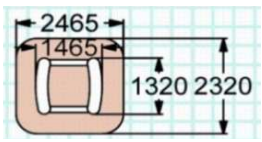


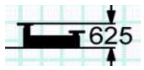




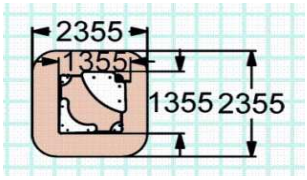
4252 Akvárium (4261)

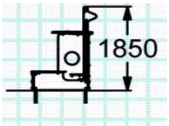




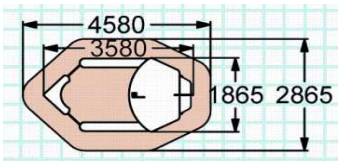


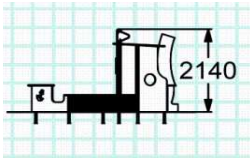
4253 Čln



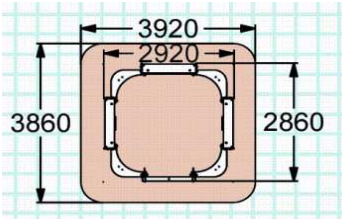


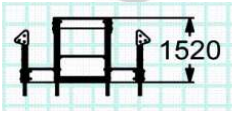
4254 Loď



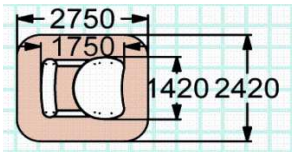


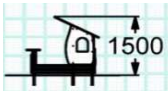
(4256) 4260 Sandy s počítadlami



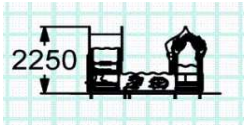


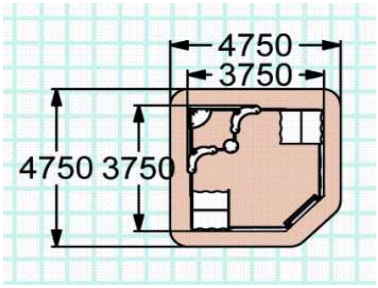
4263 Hríb



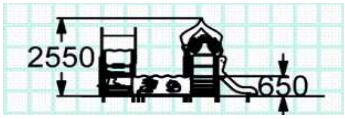


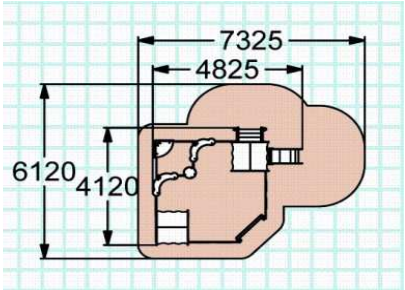
4270 Lesík (Zlatá rybka, Orient, Pevnosť, Snehulienka, Šachvý klub ...)



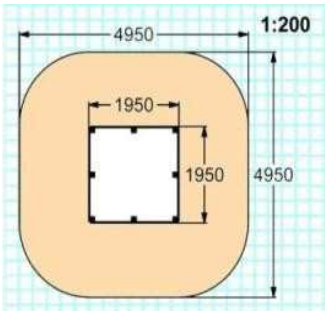


4281 Lesík so šmýkačkou (Zlatá rybka, Orient, Pevnosť, Snehulienka ...)

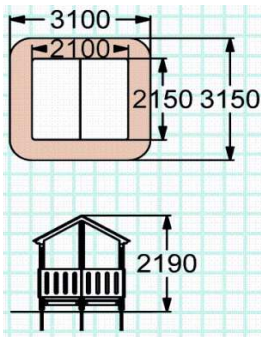




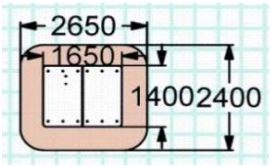
4300 Ohrada

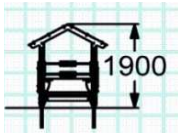


4301 Domček s ohradou

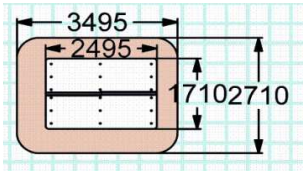


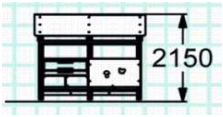
4302 Domček s počítadlom malý



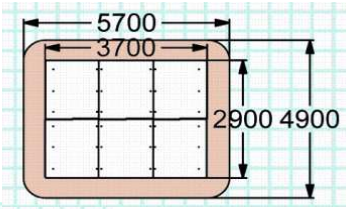


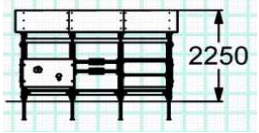
4304 Domček s počítadlom veľký



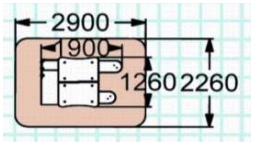


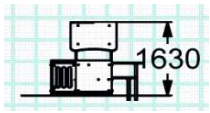
4305 Dom s počítadlom rozšírený



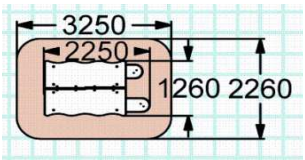


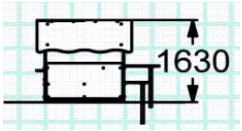
4306 Domček malý



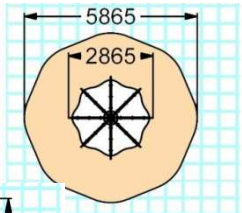


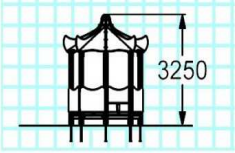
4307 Domček veľký



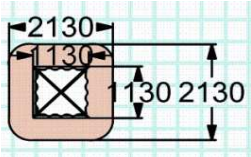


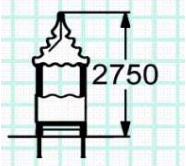
4309 Altánok okrúhly



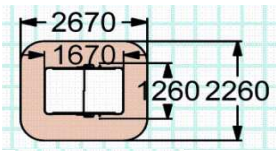


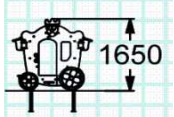
4311 Domček lesný s počítadlom



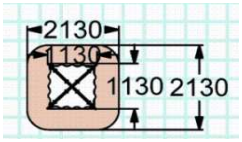


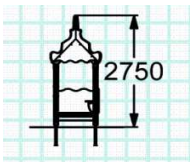
4312 Kočiar



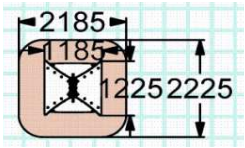


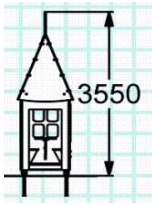
4314 Domček korálový s počítadlom



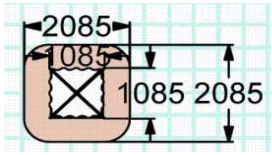


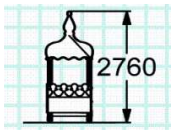
4315 Domček pre Snehulienku



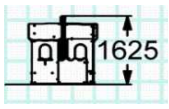


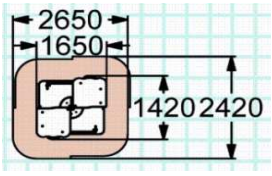
4316 Domček šachový s počítadlom



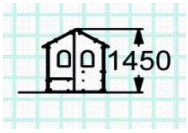


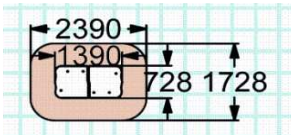
4318 Domček s komínom (4325)



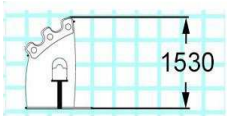


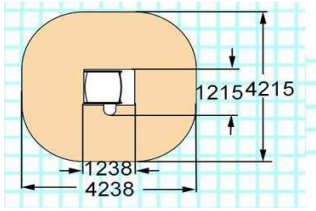
4319 Domček jednoduchý



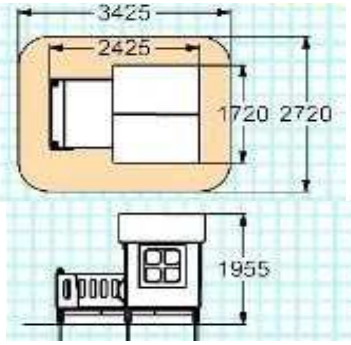


4320 Domček s pultíkom

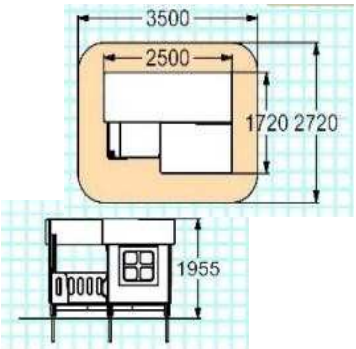




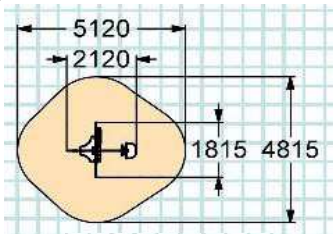
4321 Domček s terasou



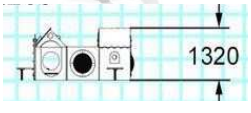
4322 Domček s čiastočne prekrytou terasou

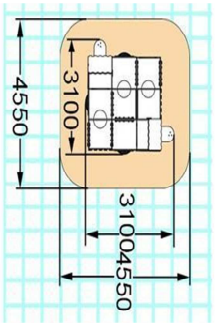


4327 Strom múdrosti

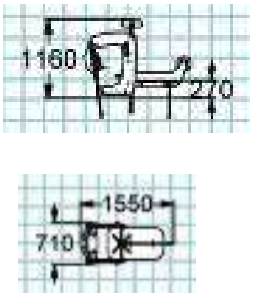


4399 Bludisko 9-sektorové

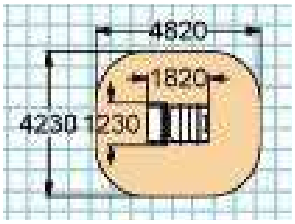




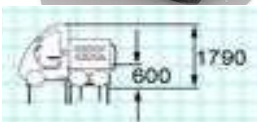
4411 Vrtuľník

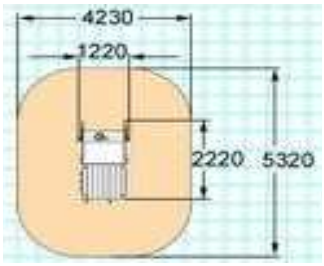


4412 SUV

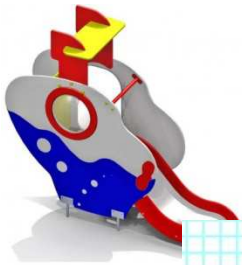


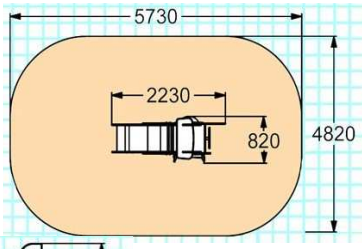
4413 Auto

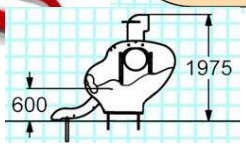




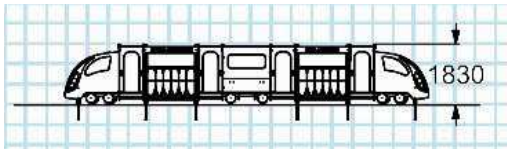
4417 Nemo

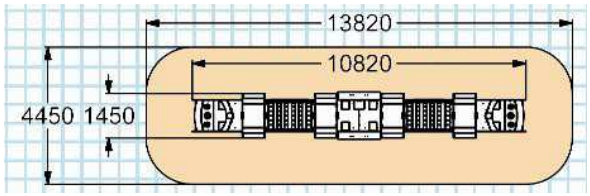




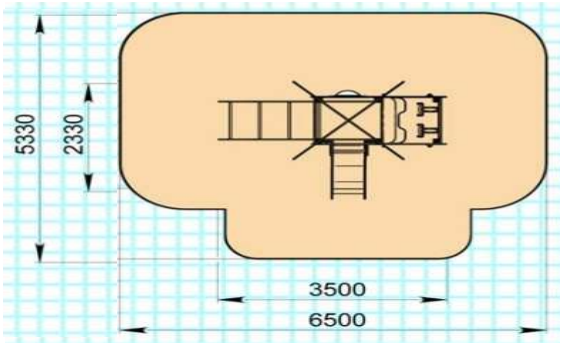


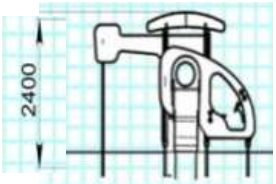
4415 Expres



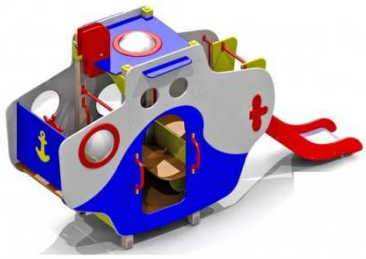


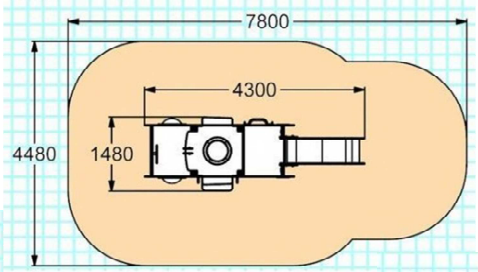
4416 Vrtuľník so šmýkačkou

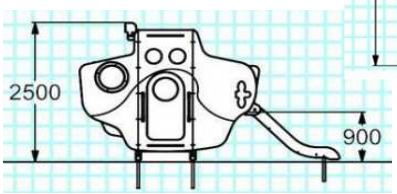


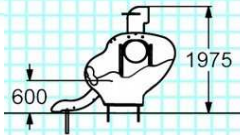


4418 Ponorka

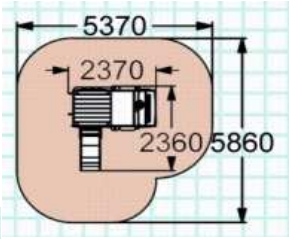


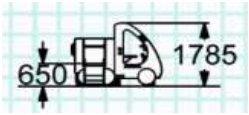




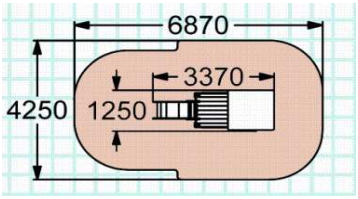


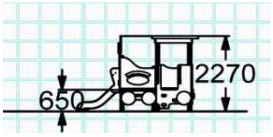
4419 Auto so šmýkačkou



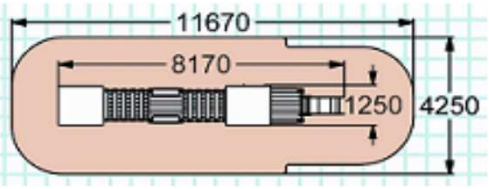


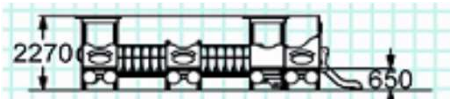
4420 Vláčik so šmýkačkou



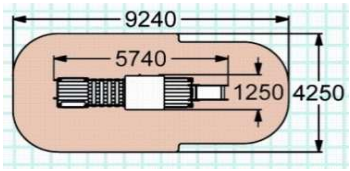


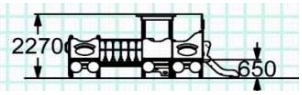
4421 Vláčik s dvoma vagónmi



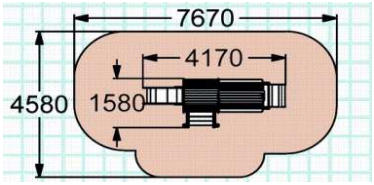


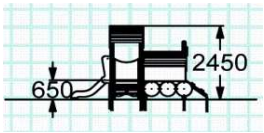
4422 Vláčik s vagónom



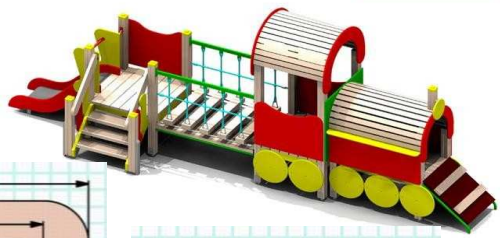


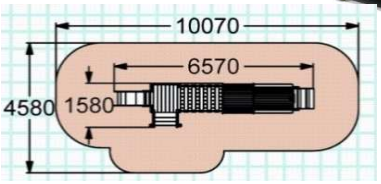
4424 Lokomotíva so šmýkačkou

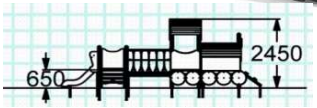




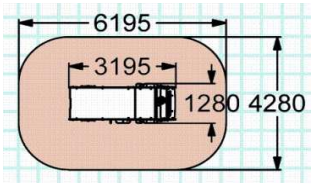
4425 Lokomotíva so šmýkačkou

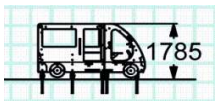




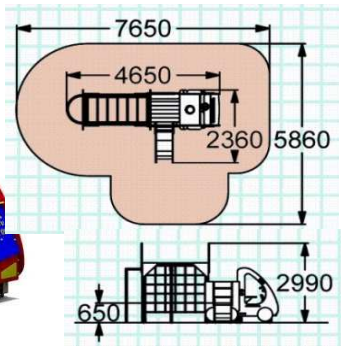


4426 Autobus

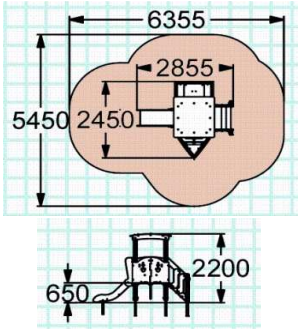




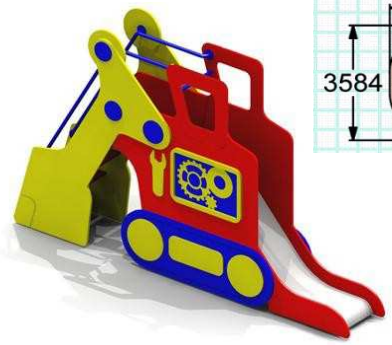
4427 Hasičské auto

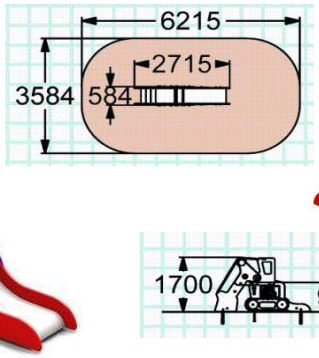


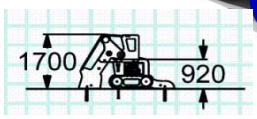
4428 Loď so šmýkačkou



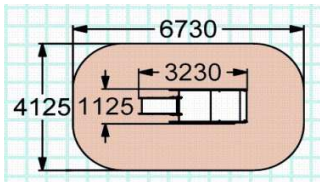
4429 Bager

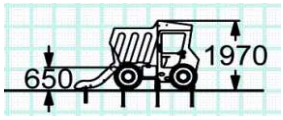




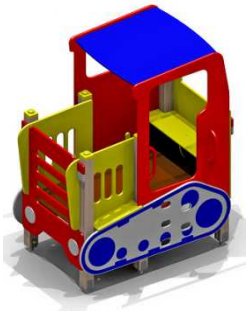


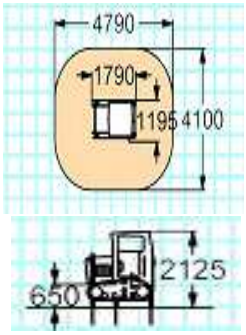
4430 Nákladné auto



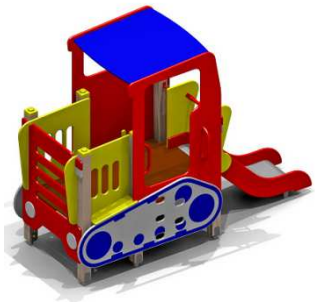


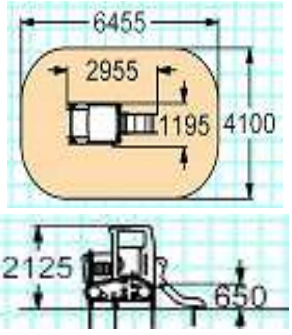
4431 Pásový traktor I



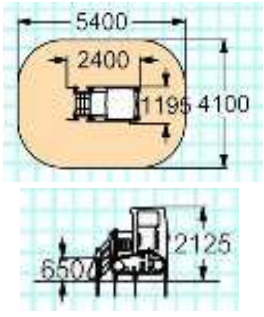


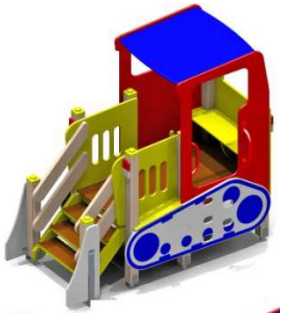
4432 Pásový traktor I so šmýkačkou



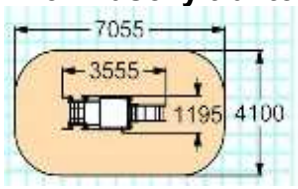


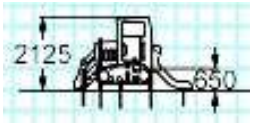
4433 Pásový traktor II

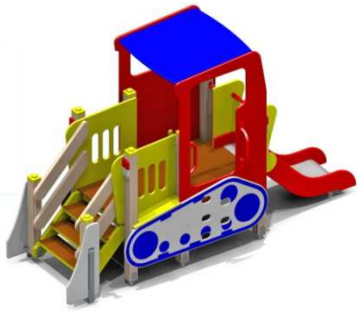




4434 Pásový traktor II so šmýkačkou

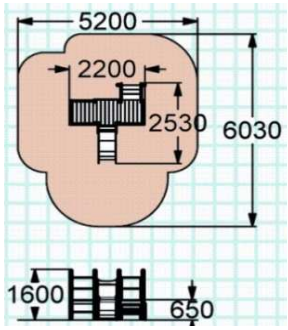




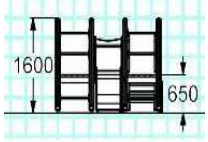


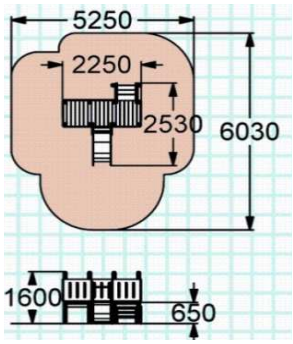
Kombinované zostavy 3 - 7 rokov

5100

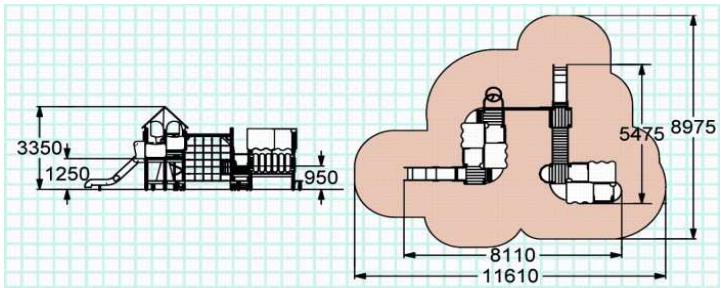


5101

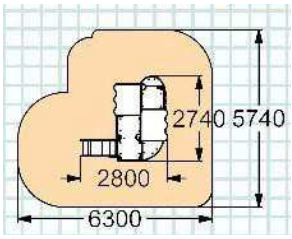


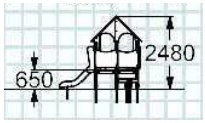


5102

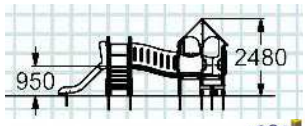


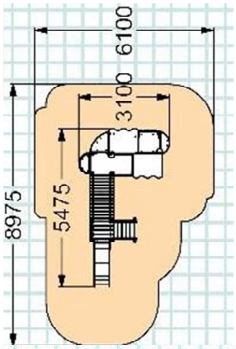
5103



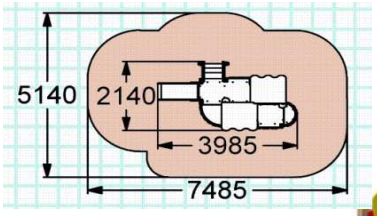


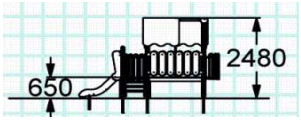
5104



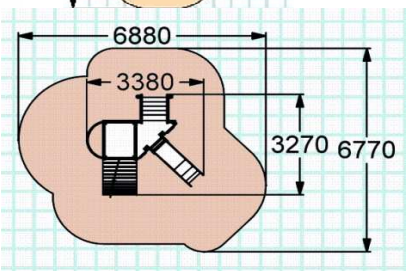


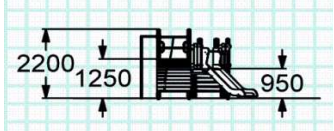
5105



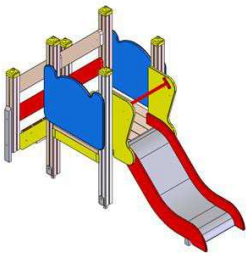


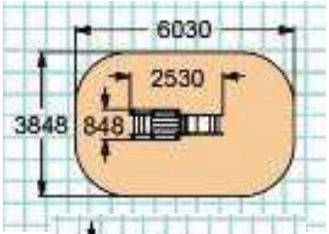
5106

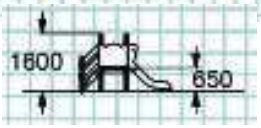




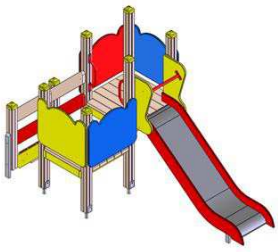
5109

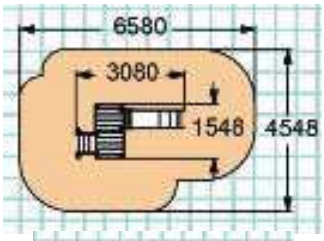


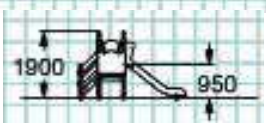




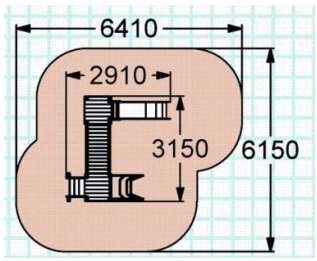
5110

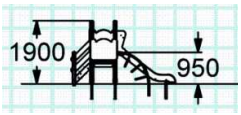


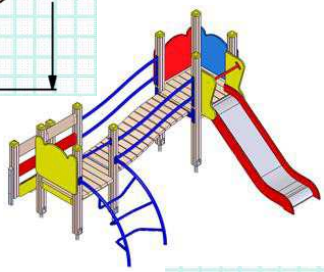




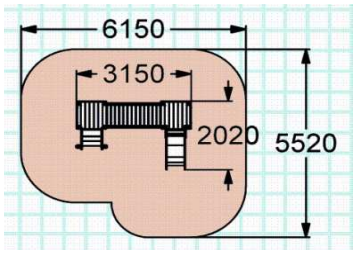
5111

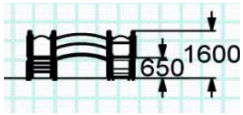


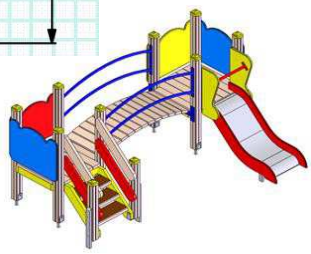




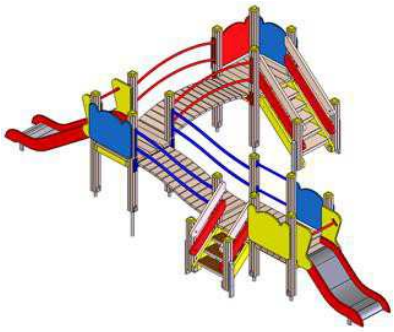
5112

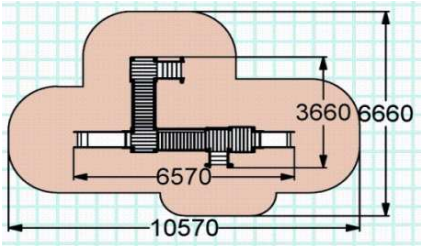


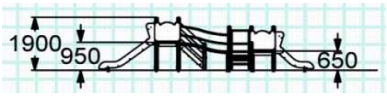




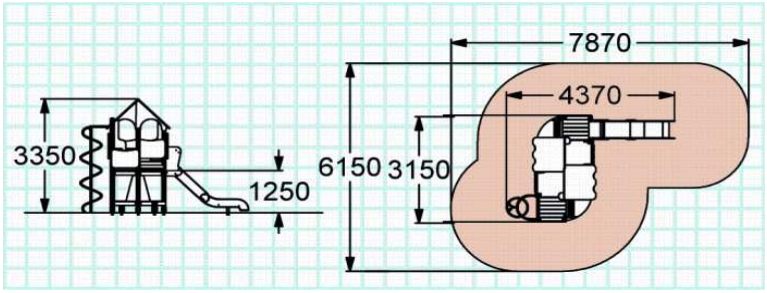
5113



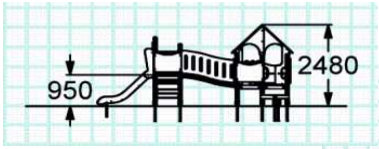


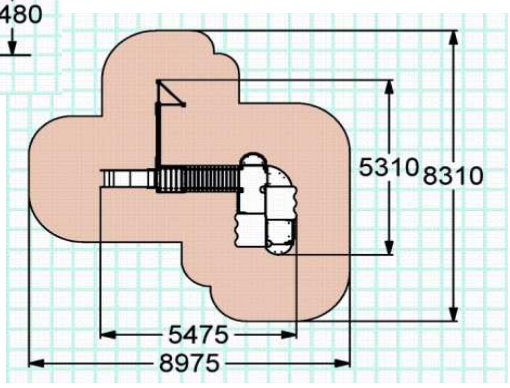


5114

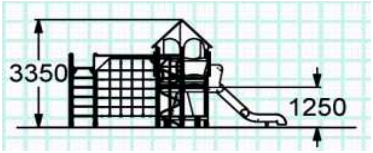


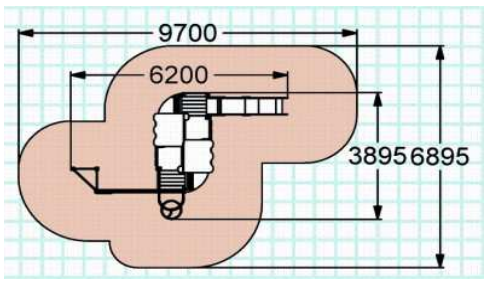
5115





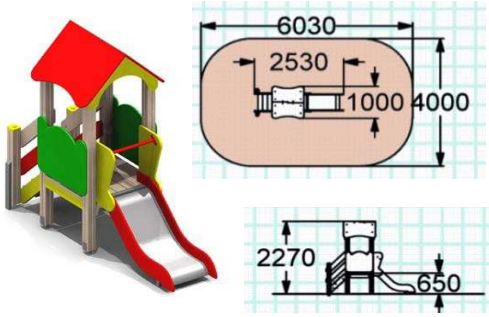
5116



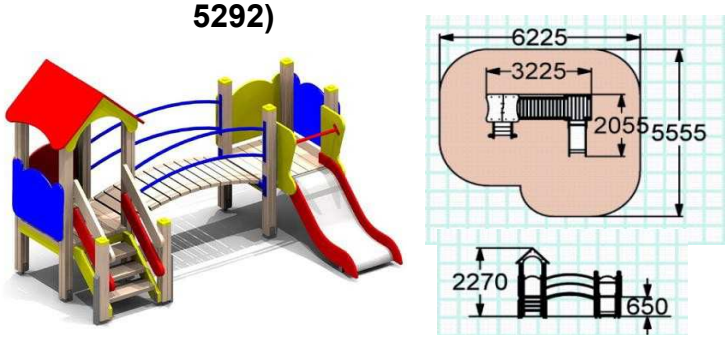


Kombinované zostavy 3 - 7 rokov

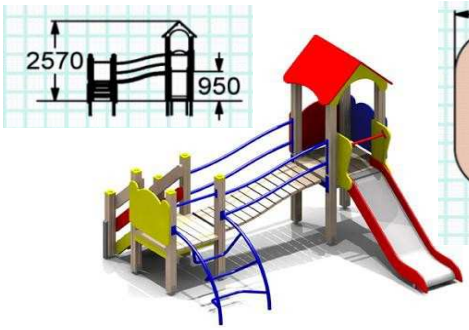
5117 (5137, 5142, 5227, 5293)



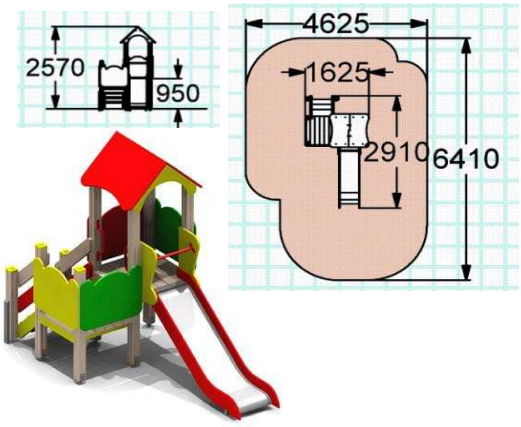
5118 (5138, 5143, 5218, 5228, 5292)



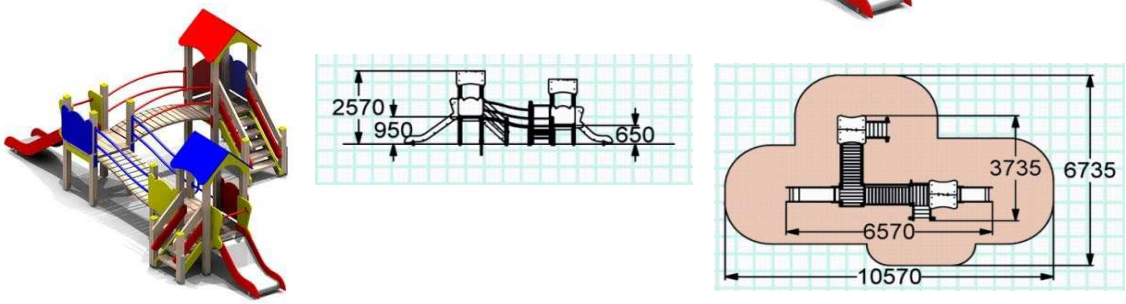
5119 (5139, 5144, 5219, 5229)



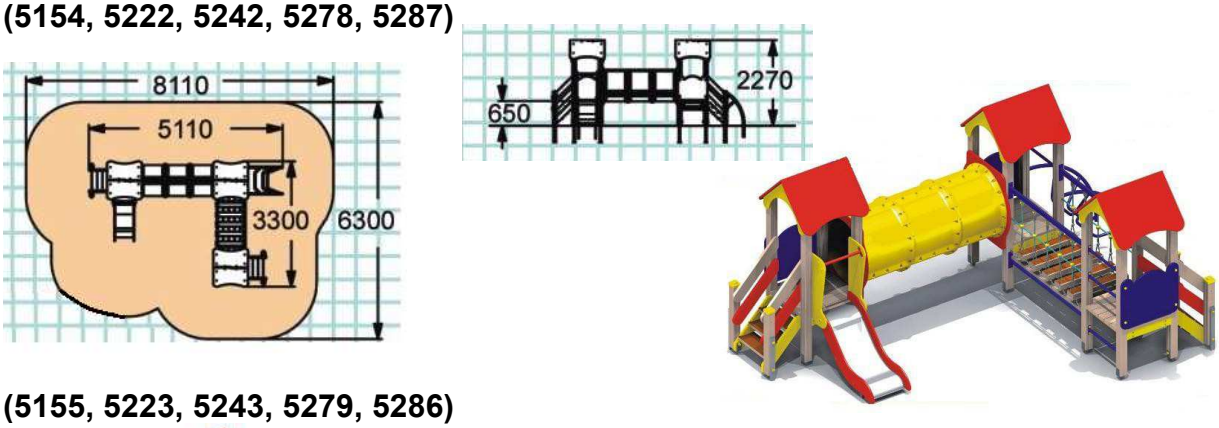
5120 (5145, 5150, 5220, 5230, 5291, 5294)



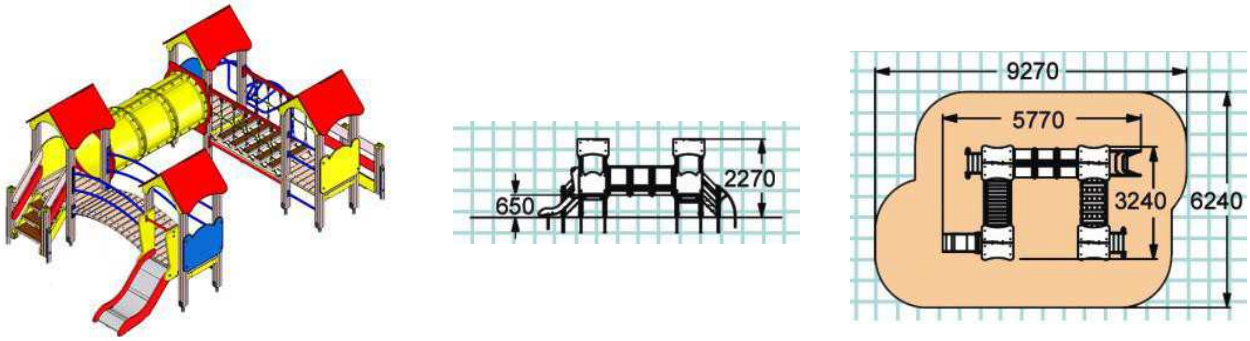
5121 (5146, 5151, 5221, 5231, 5282)



5122 (5154, 5222, 5242, 5278, 5287)

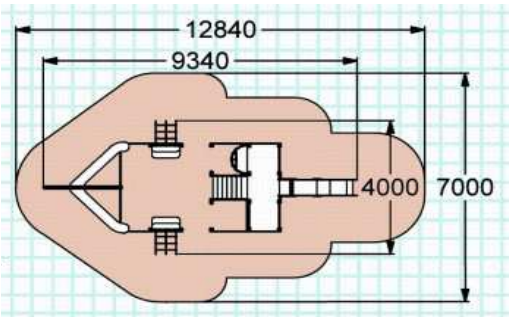


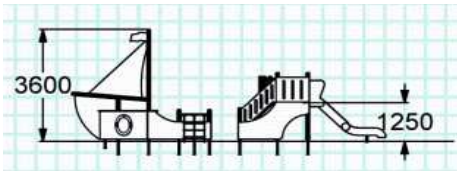
5123 (5155, 5223, 5243, 5279, 5286)



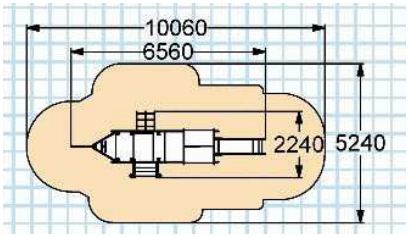
Kombinované zostavy 3 -7 rokov

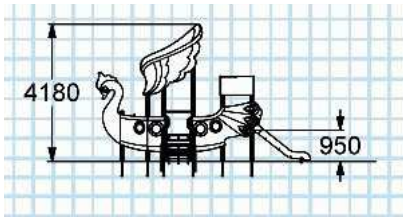
5125



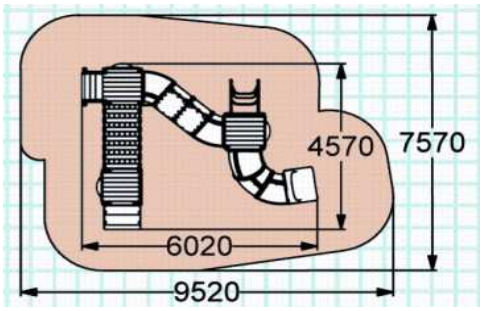


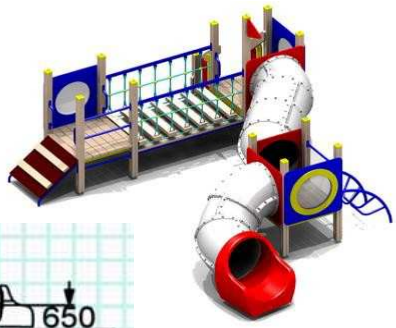
5126

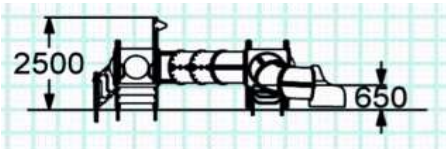




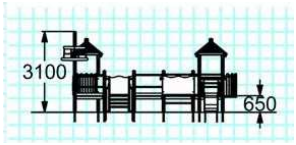
5127

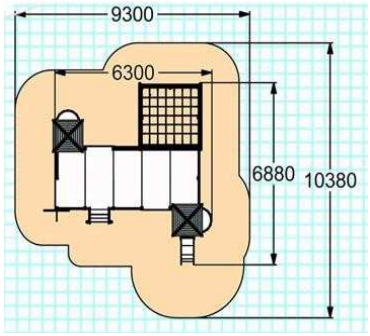




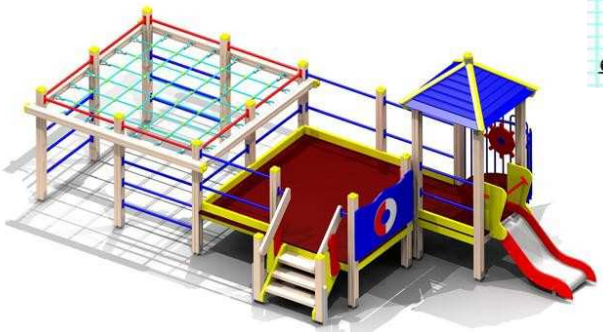


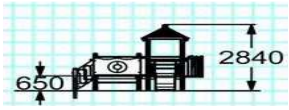
5140

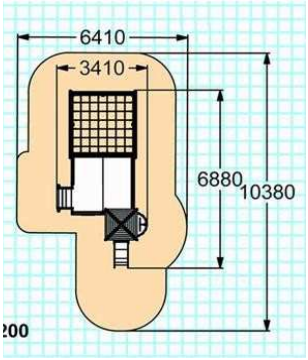




5141

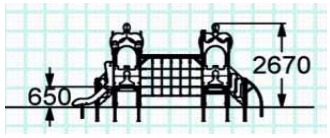


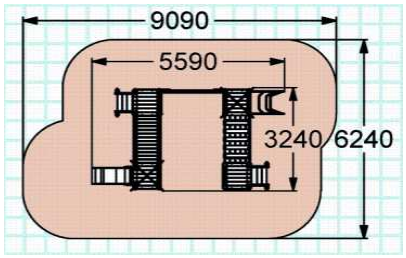




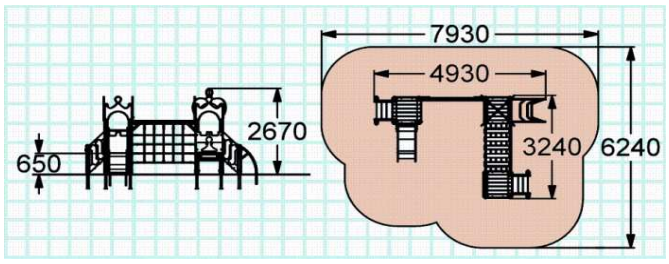
Kombinované zostavy 3 -7 rokov

5241 (5153, 5281, 5299)

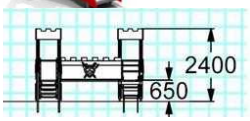


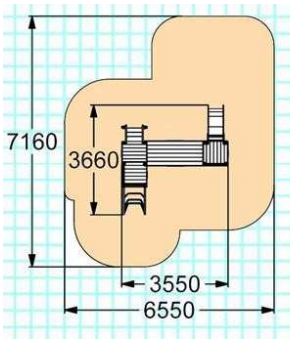


5243 (5152, 5280, 5298)

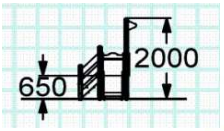


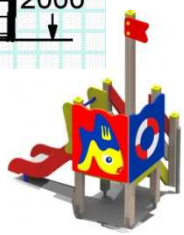
5288

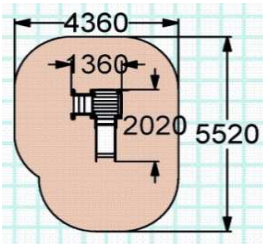




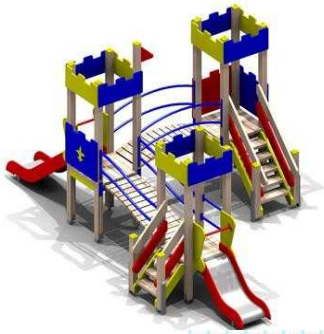
5295

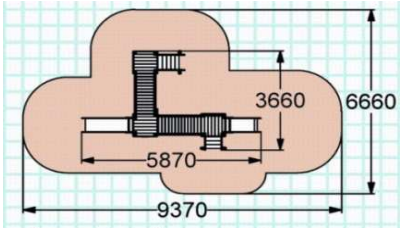


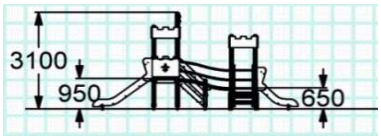




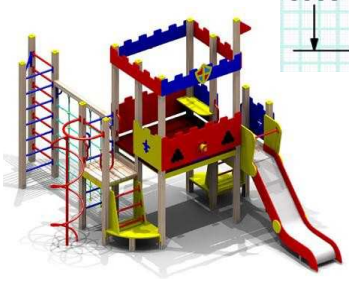
5290

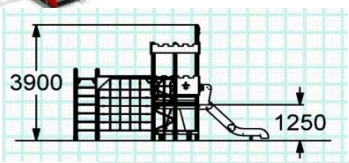


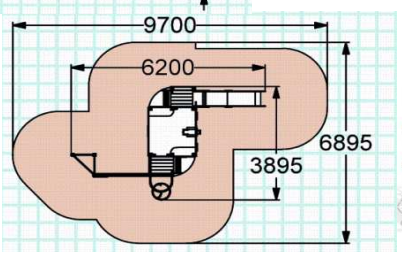




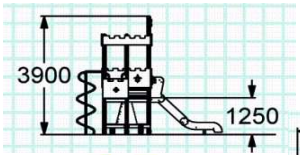
5296

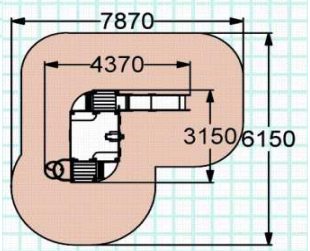






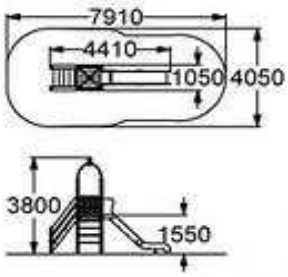
5297



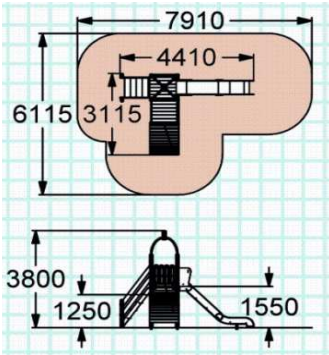


Kombinované zostavy 6 -12 rokov

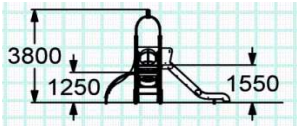
5300

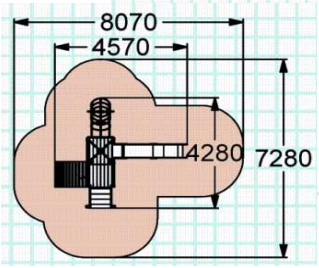


5301

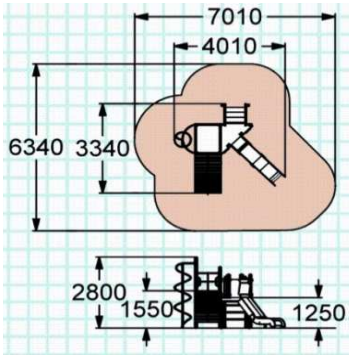


5302

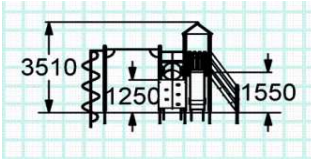


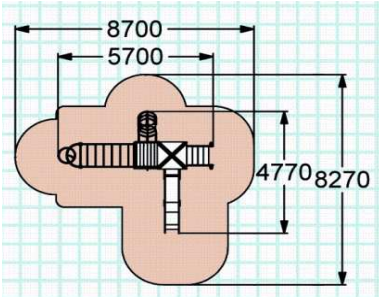


5303

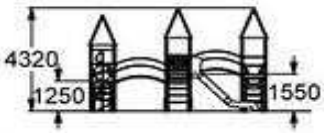


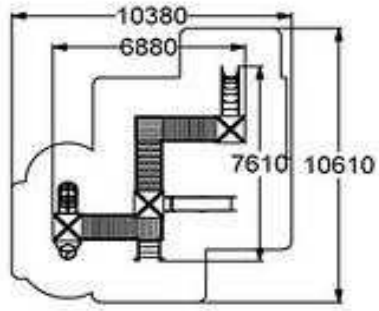
5304



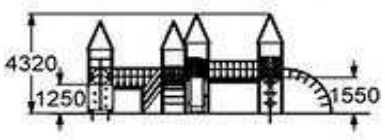


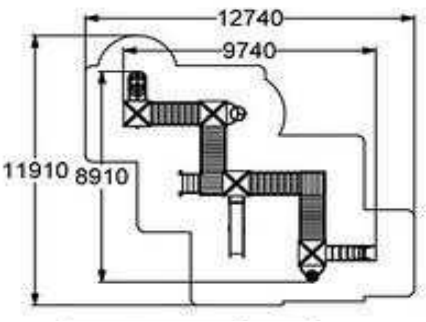
5307





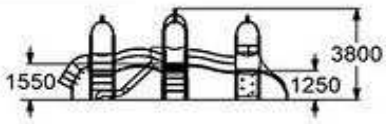
5308

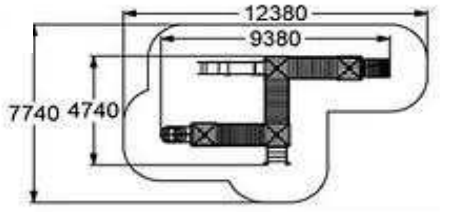




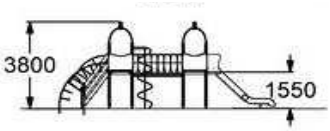
Kombinované zostavy 6 -12 rokov

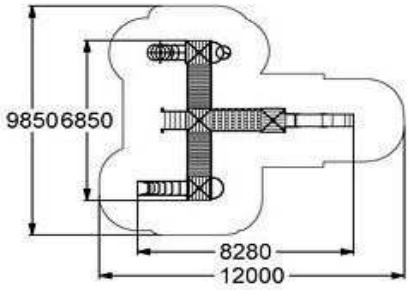
5309



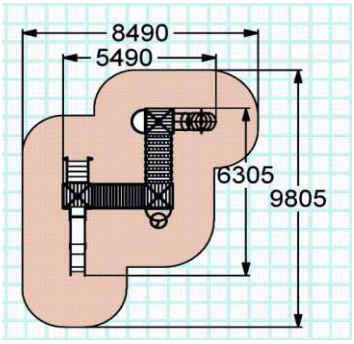


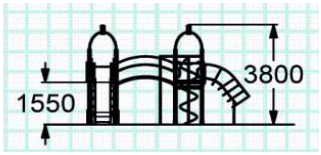
5313



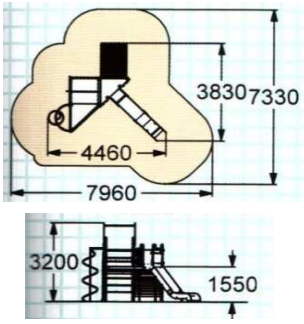


5314

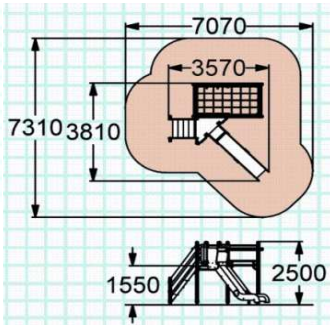




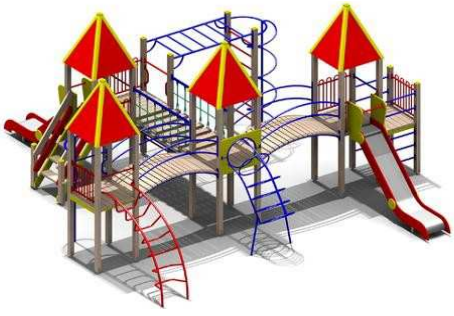
5317

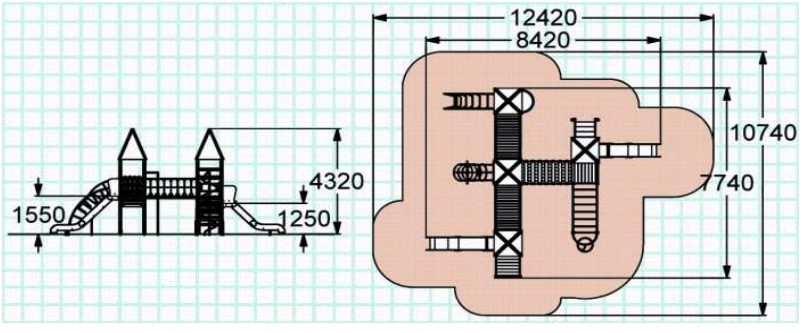


5318



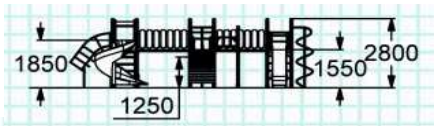
5339

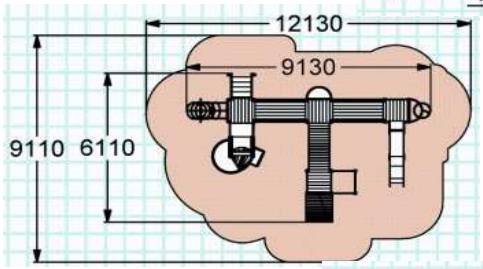


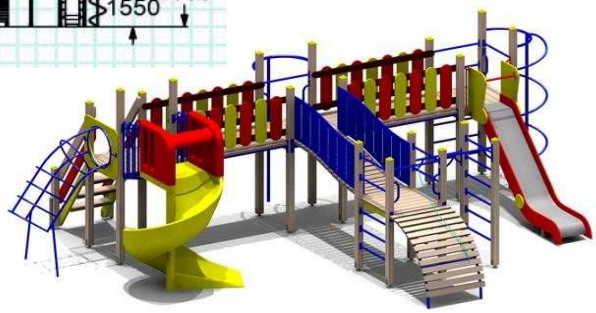


Kombinované zostavy 6 -12 rokov

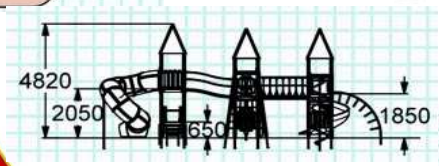
5341

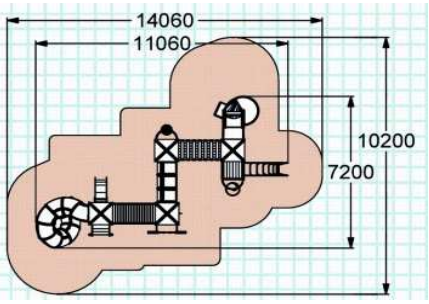




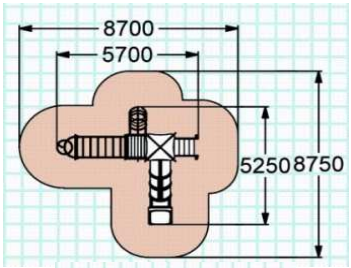


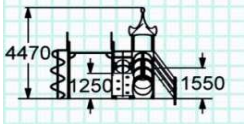
5356



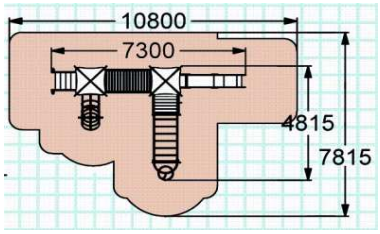


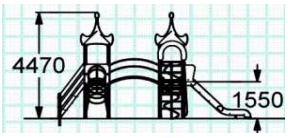
5415



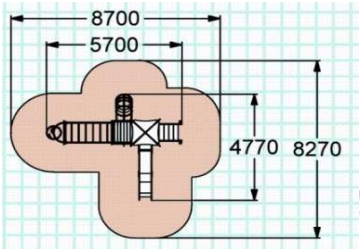


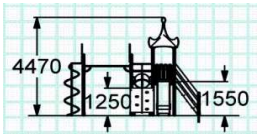
5416



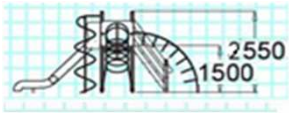


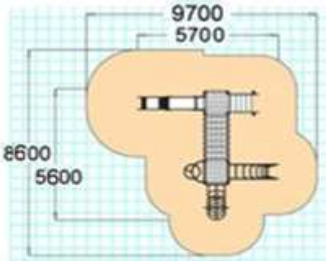
5420



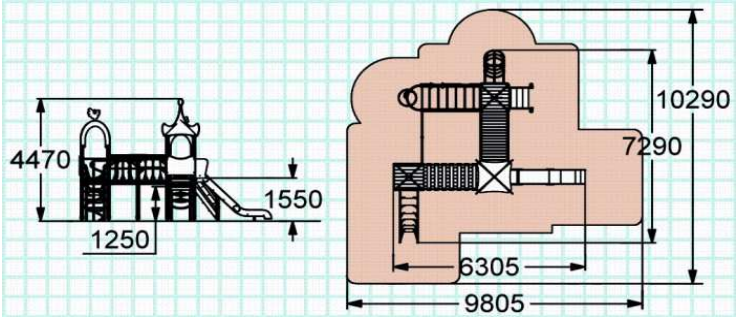


5433

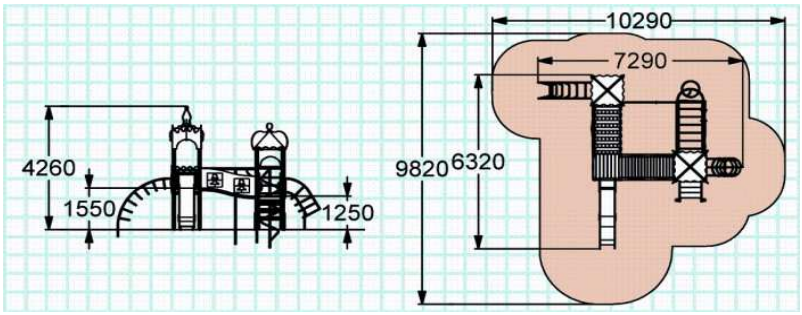




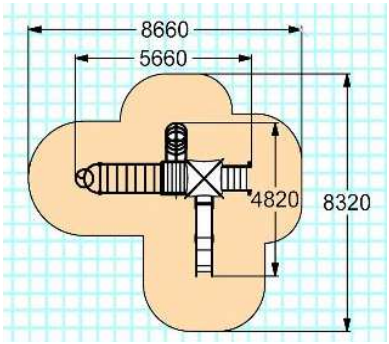
5447

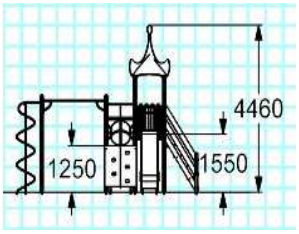


5448

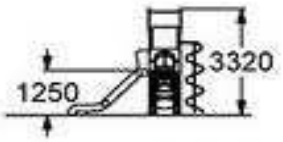


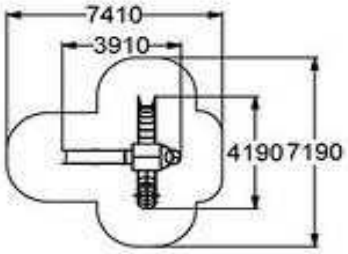
5482



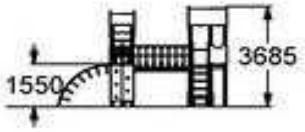


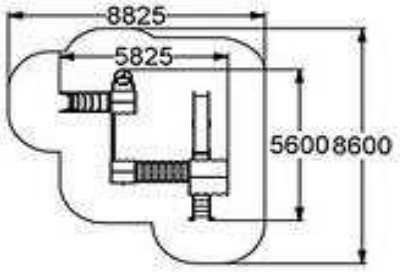
5521



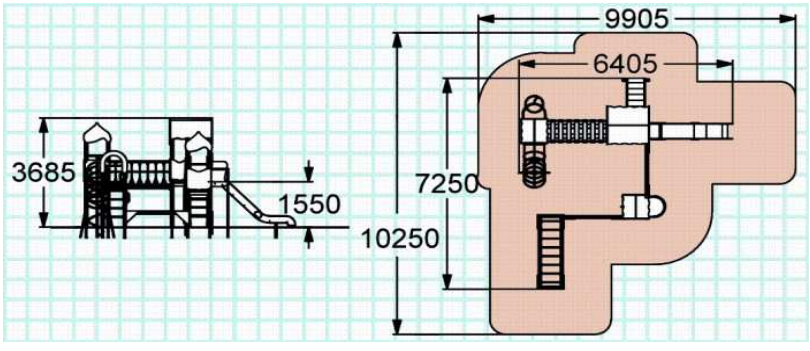


5524





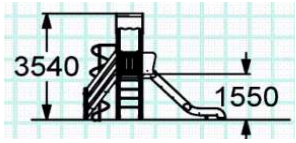
5525

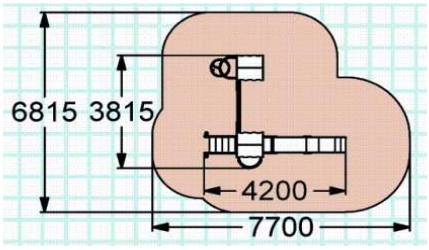


Kombinované zostavy 6 -12 rokov

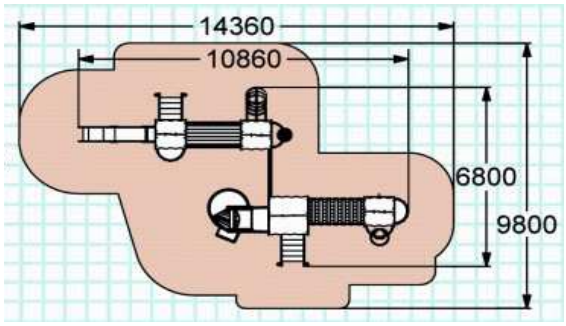
Kombinované zostavy 6 -12 rokov

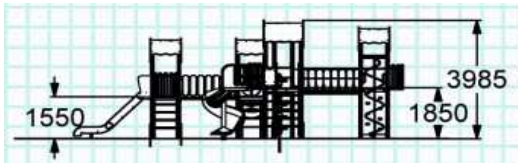
5527



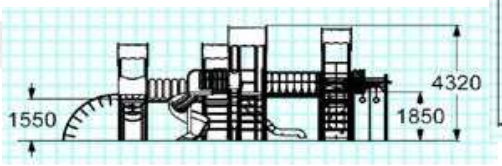


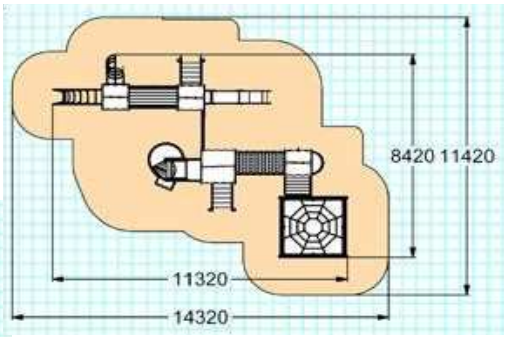
5555



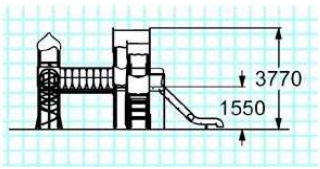


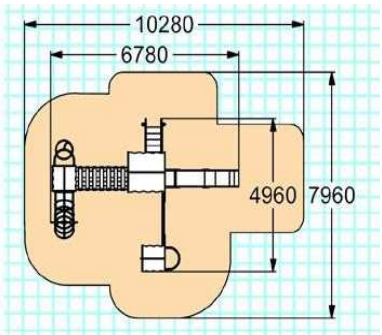
5560



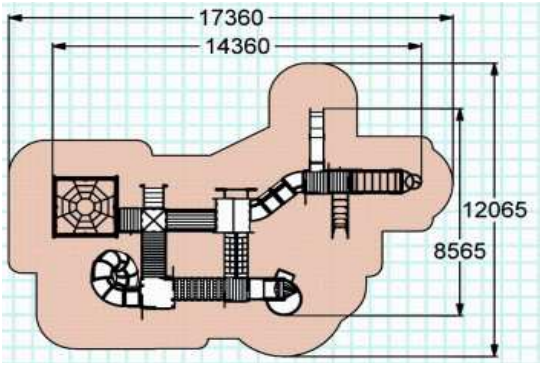


5584



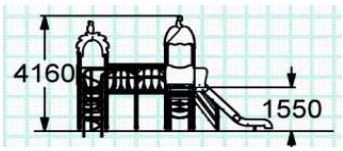


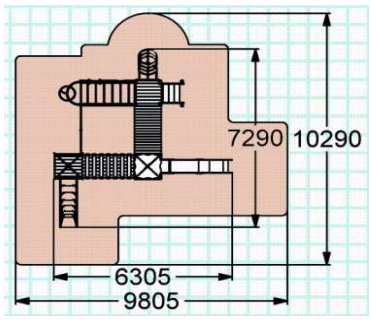
5601



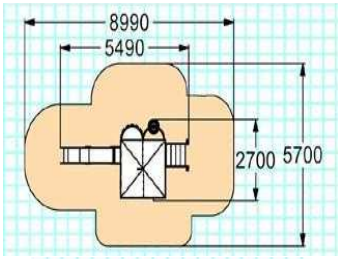
Kombinované zostavy 6 -12 rokov

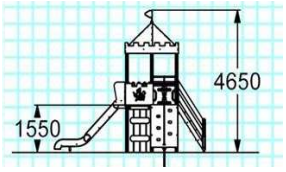
5611



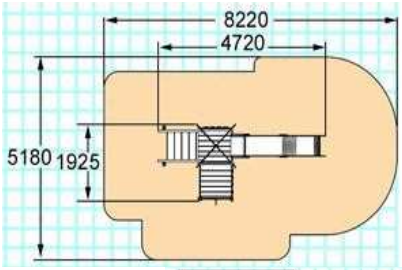


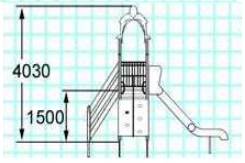
5663



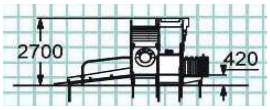


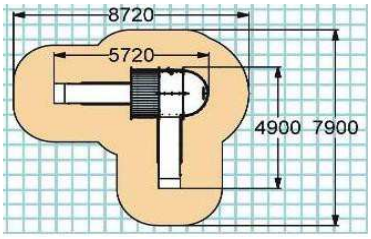
5683



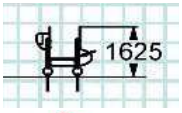


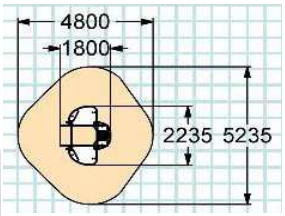
4450



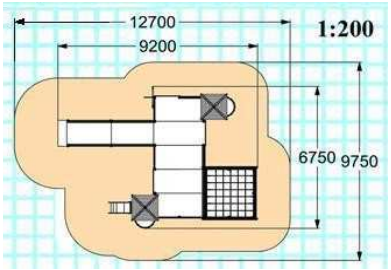


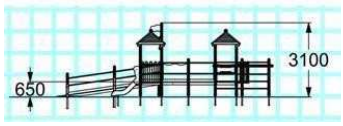
4451



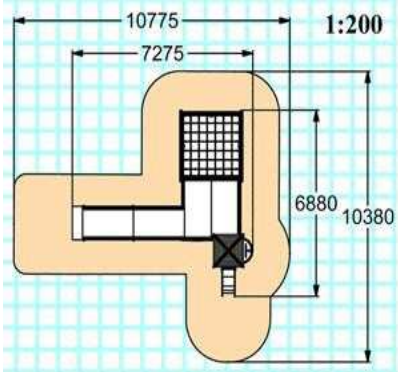


5901





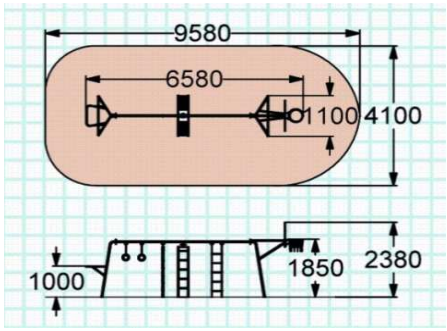
5902



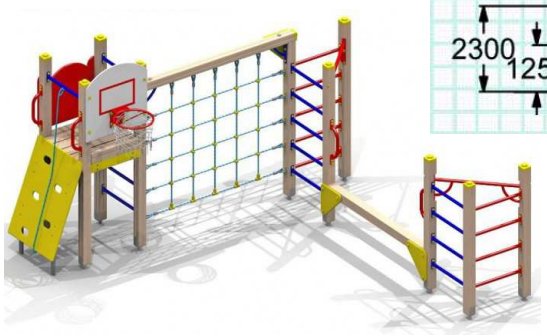
Zostavy pre deti s hendikepom

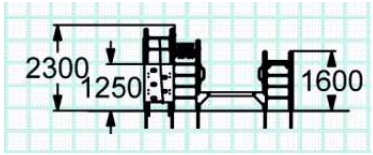
Gymcentrá 3 - 7 rokov

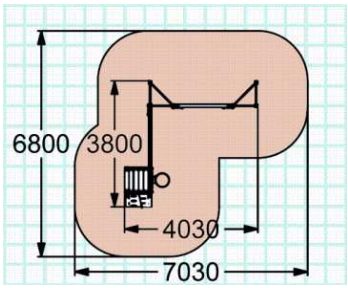
6101



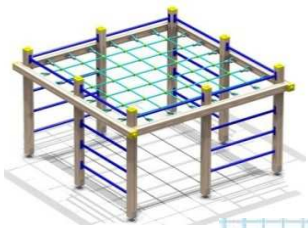
6102

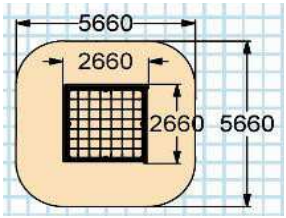


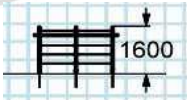




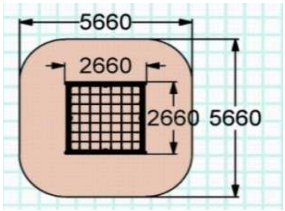
6103

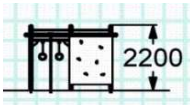




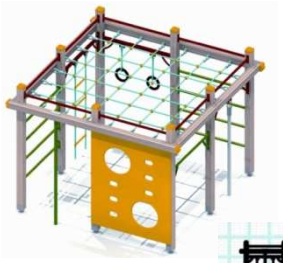


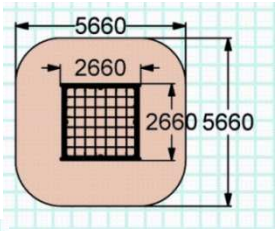
6105

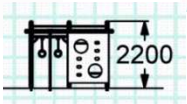




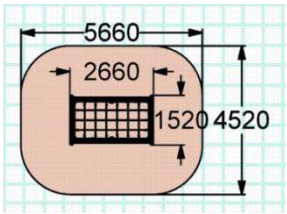
6106

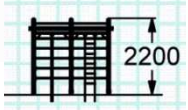




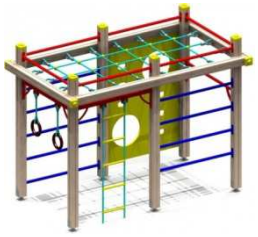


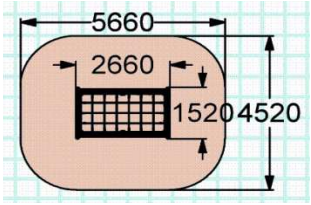
6107

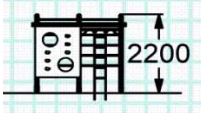




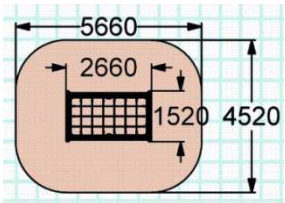
6108

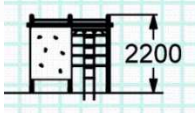






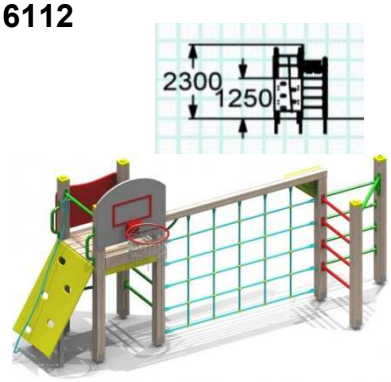
6109

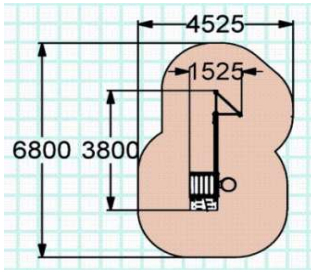




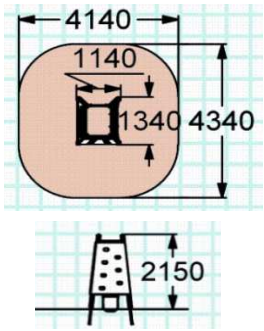
Gymcentrá 3 - 7 rokov

6112

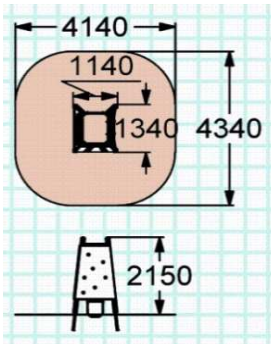




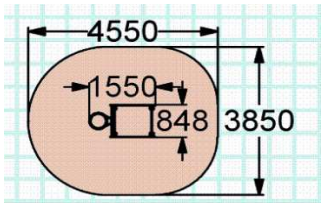
6136

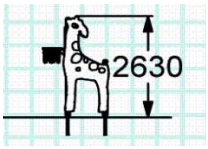


6138

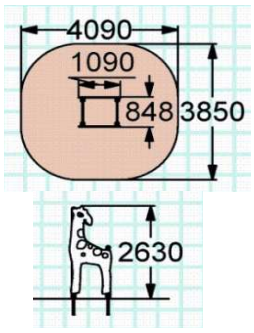


6150

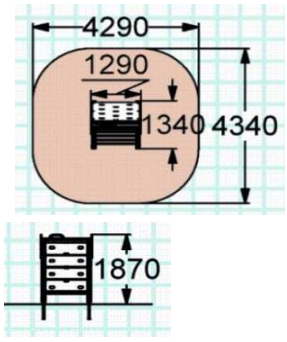




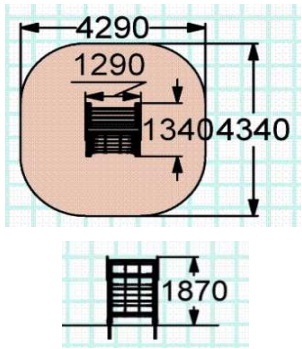
6151



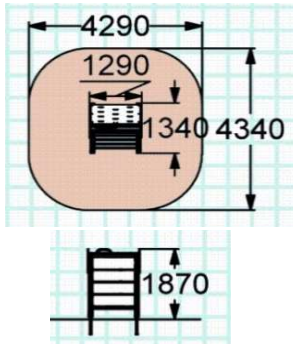
6170



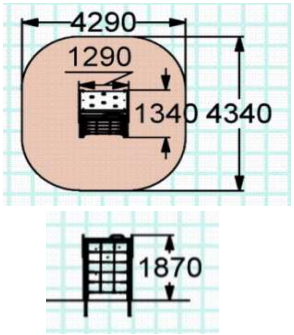
6171



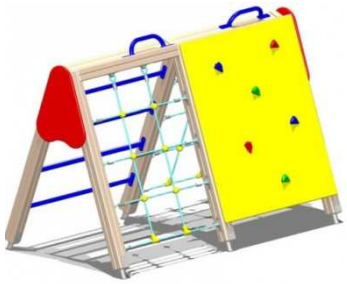
6172

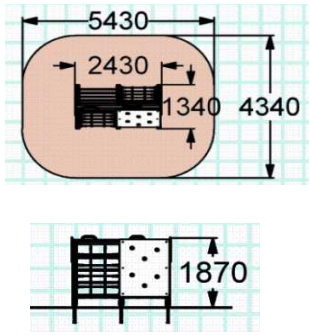


6173



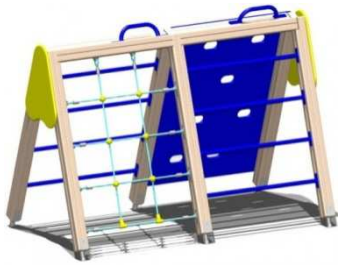
6174

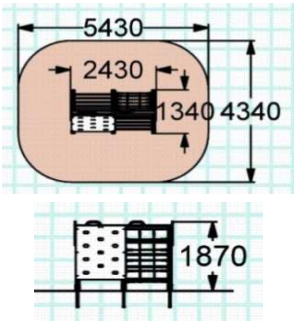




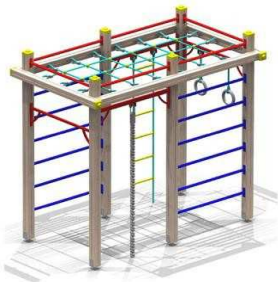
Gymcentrá 7 - 12 rokov

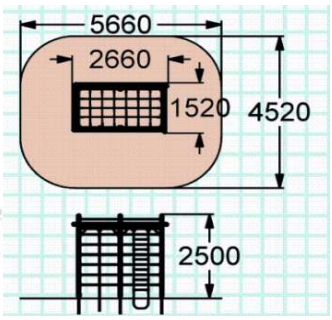
6175



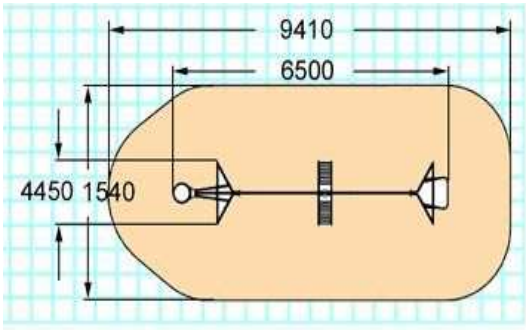


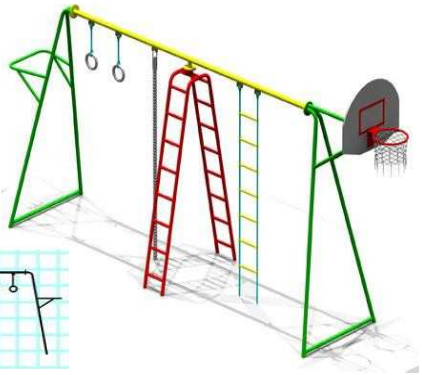
6300

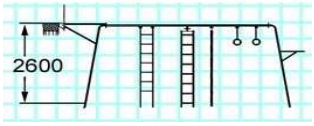




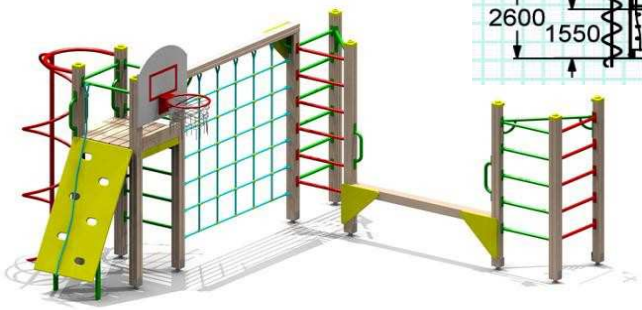
6301

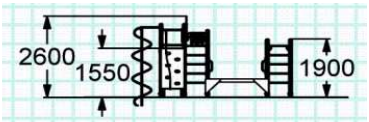


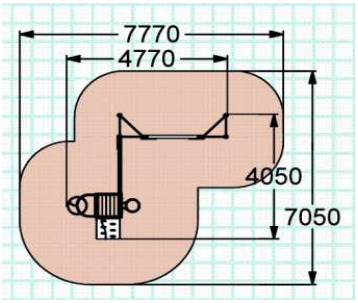




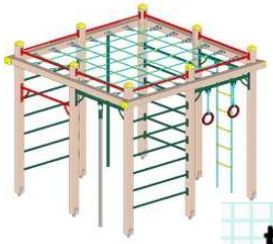
6302

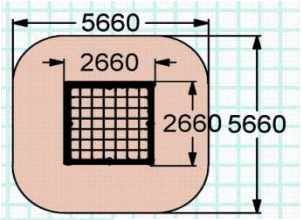


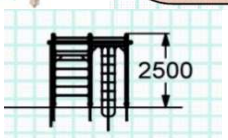




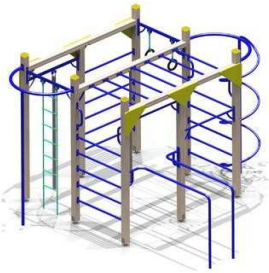
6303

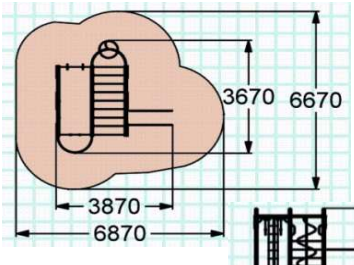


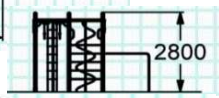




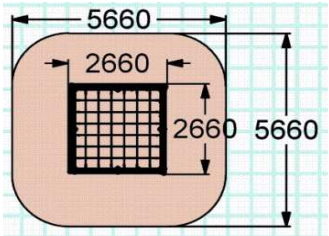
6304

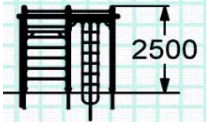




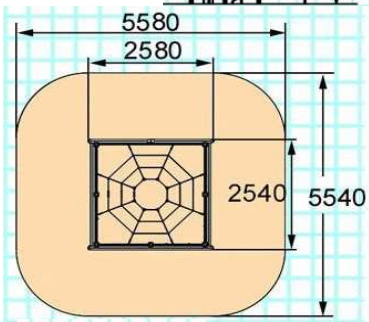


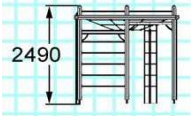
6305





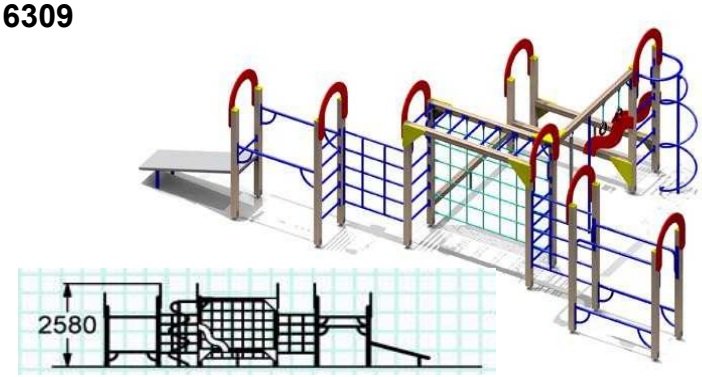
6307

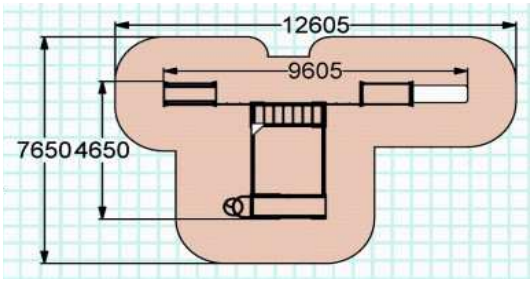




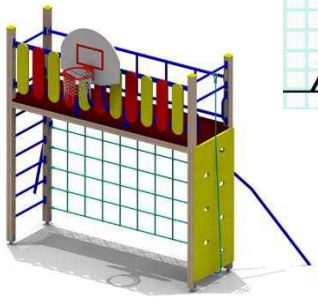
Gymcentrá 7 - 12 rokov

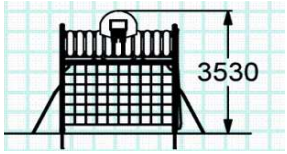
6309

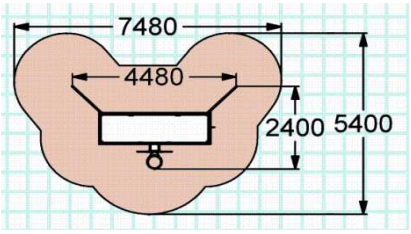




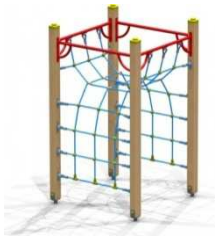
6310

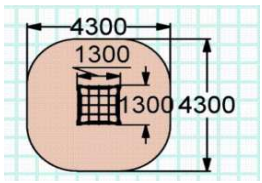


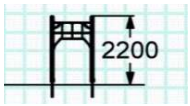




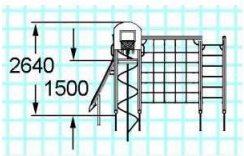
6311

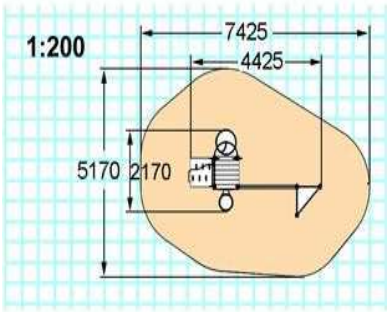




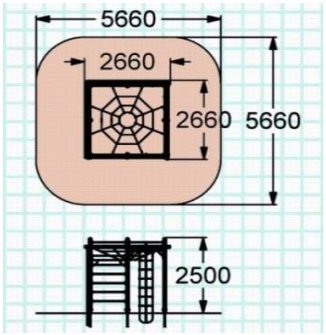


6312

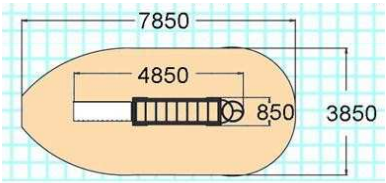


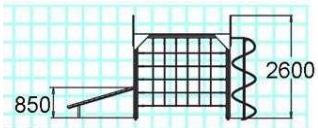


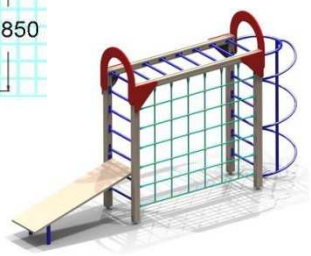
6313



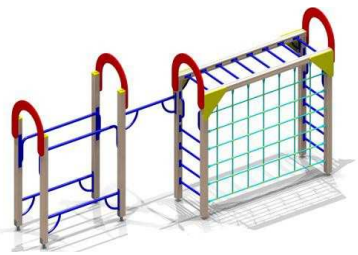
6316

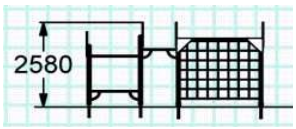


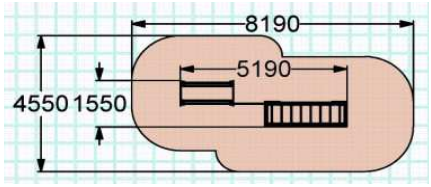




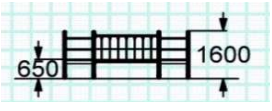
6314

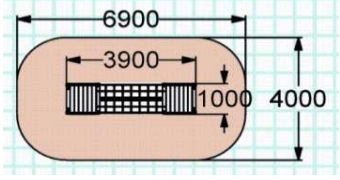






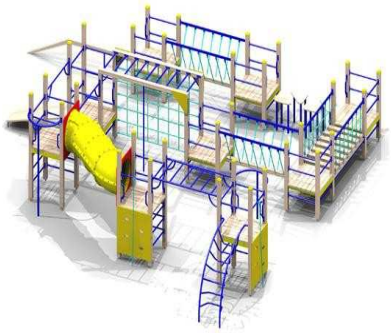
6317

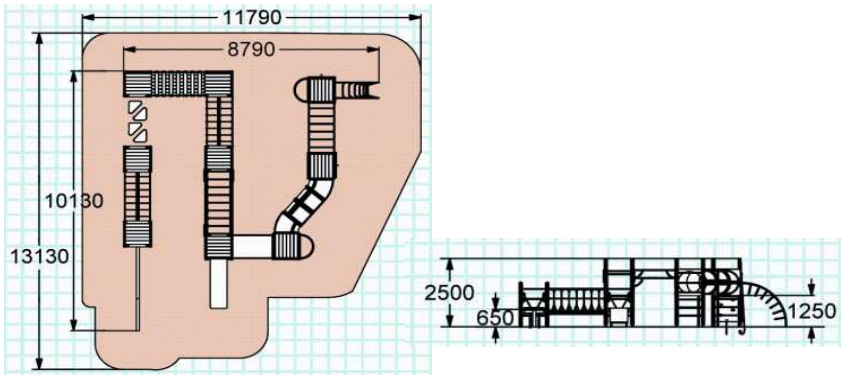




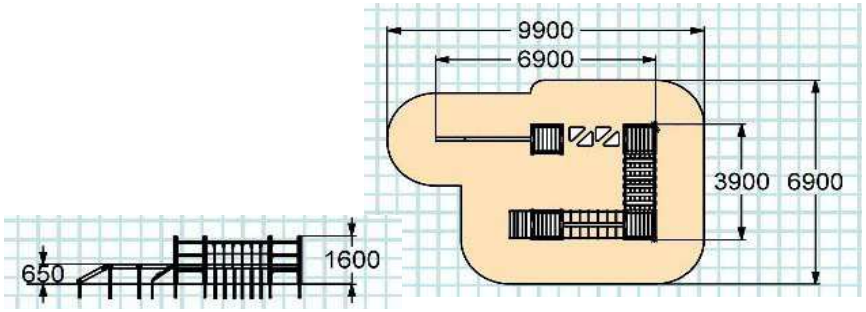
Gymcentrá 7 - 12 rokov

6315

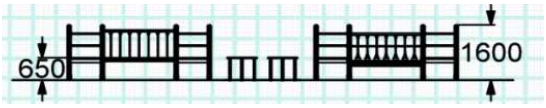


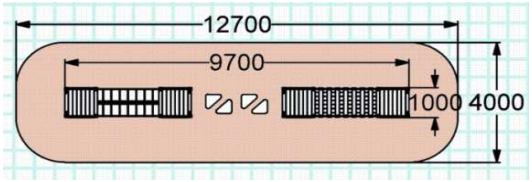


6318

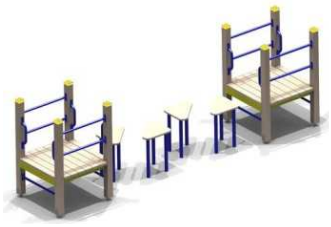


6319

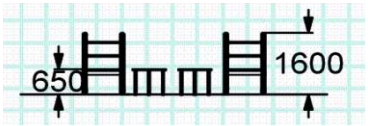


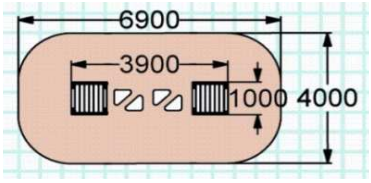


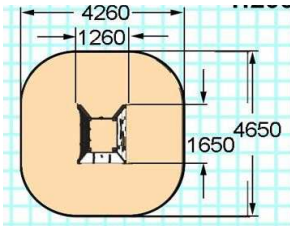
6320

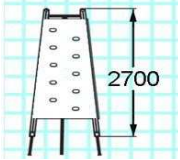


6336

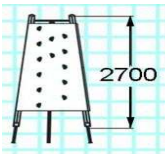


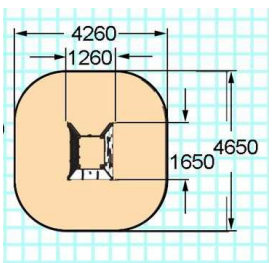




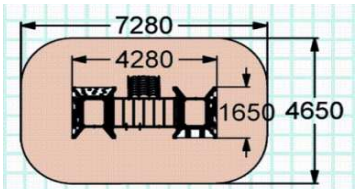


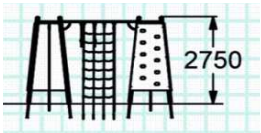
6338





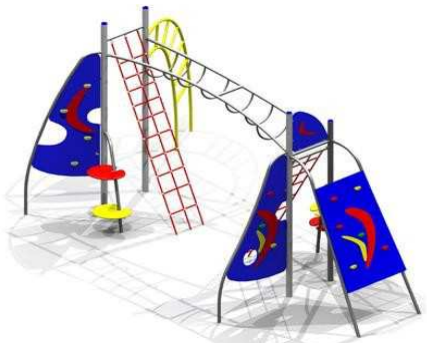
6337

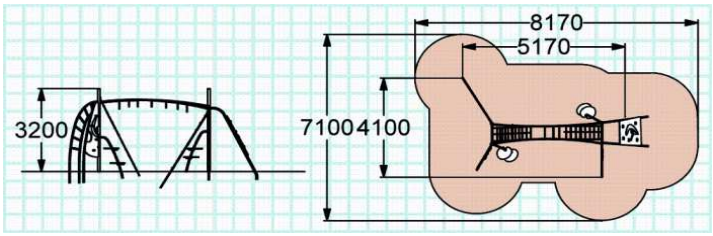




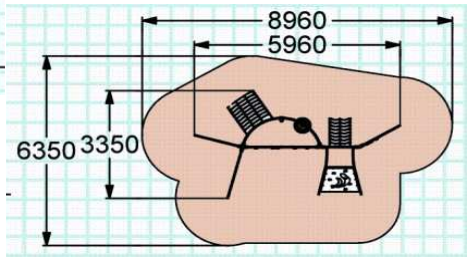
Gymcentrá 7 - 12 rokov

6400

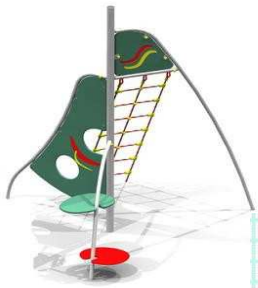


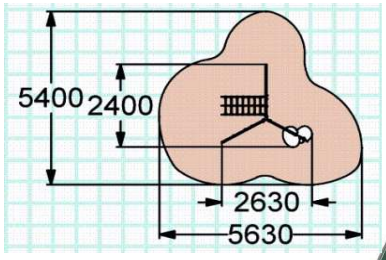


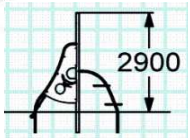
6401



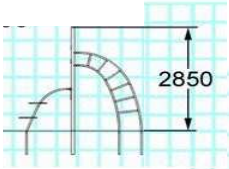
6402

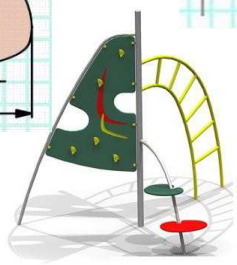


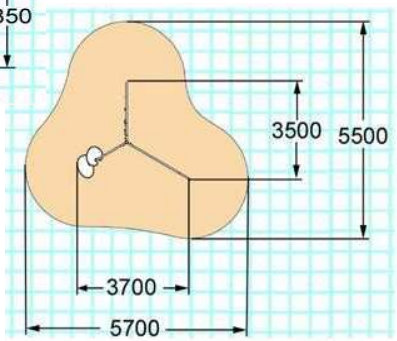




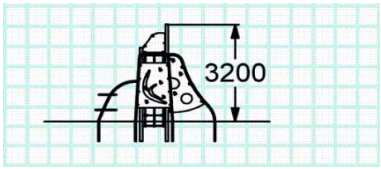
6403

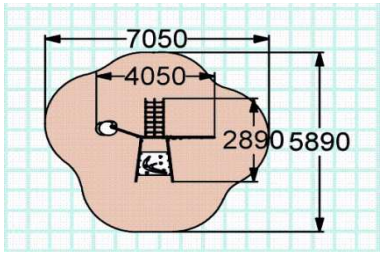




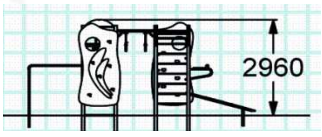


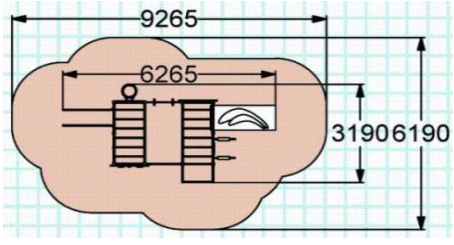
6404



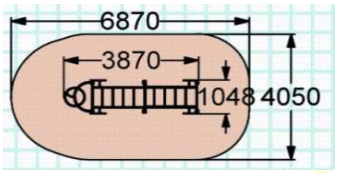


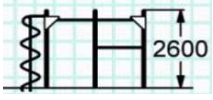
6499

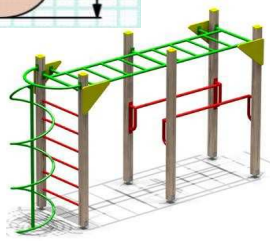




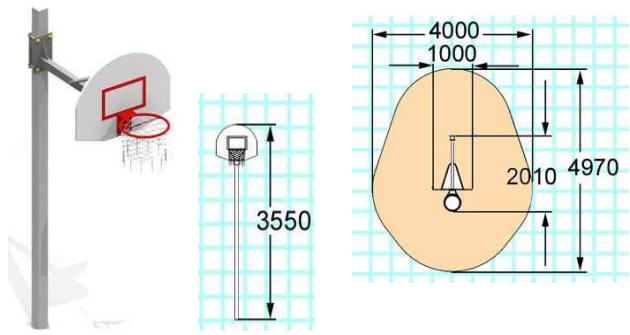
6705



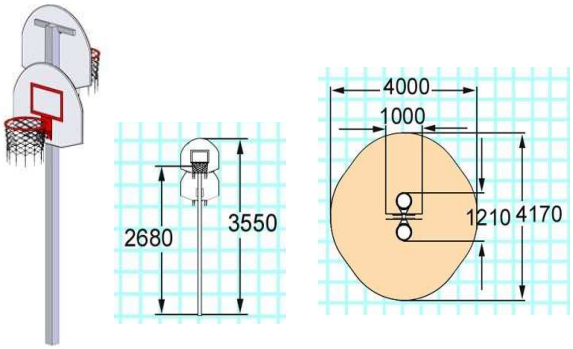




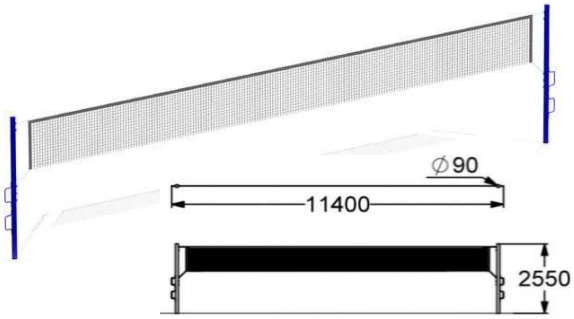
6500



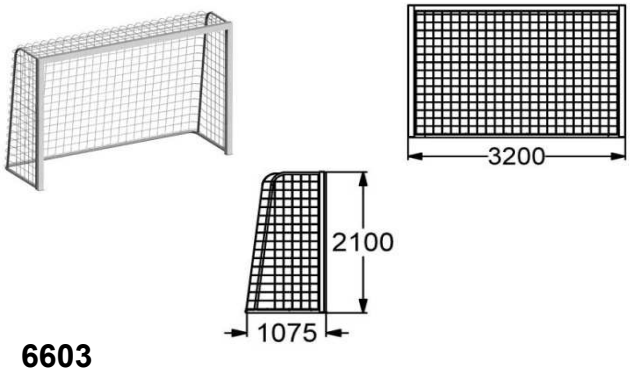
6502



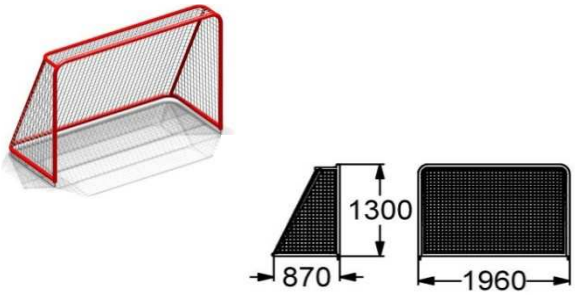
6504



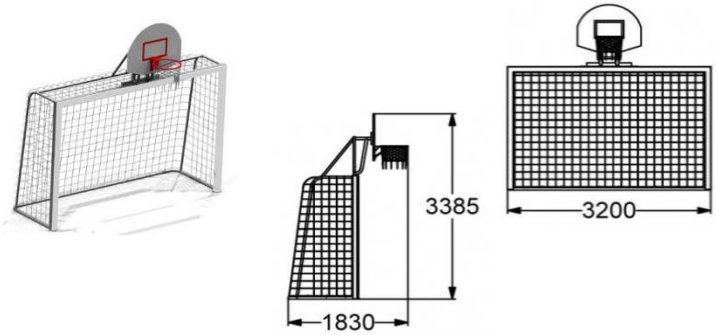
6601



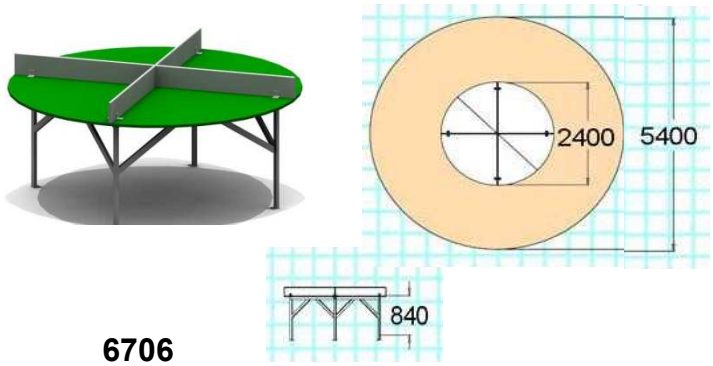
6602



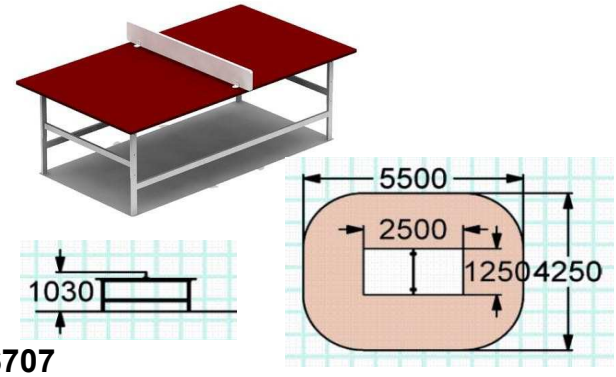
6603



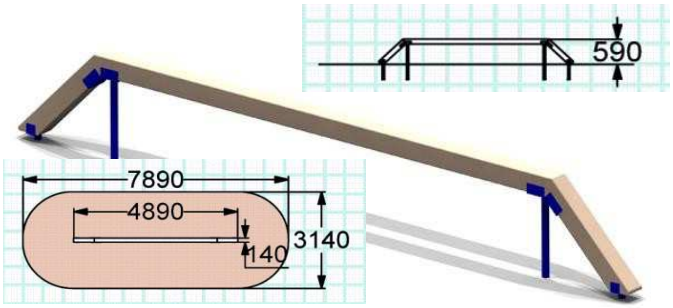
6703



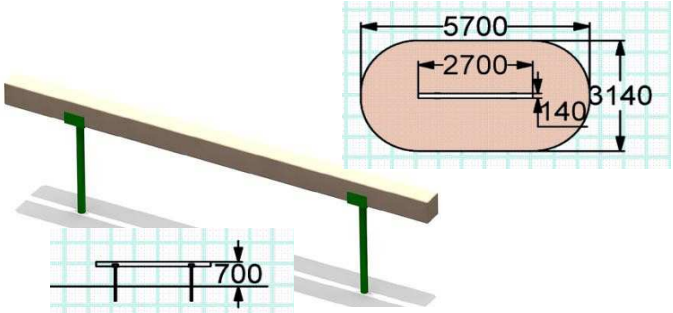
6712



6706

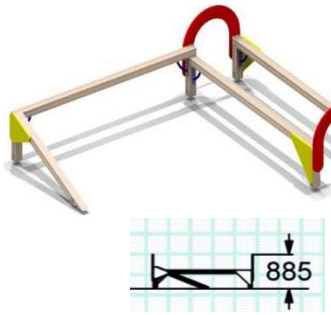


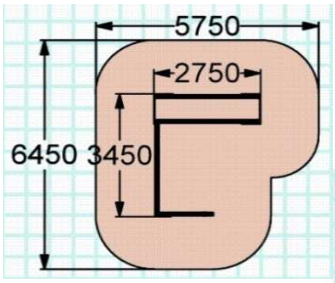
6707



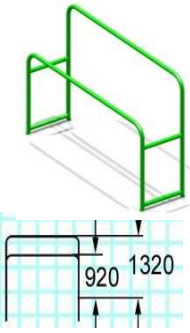
Športové náradia

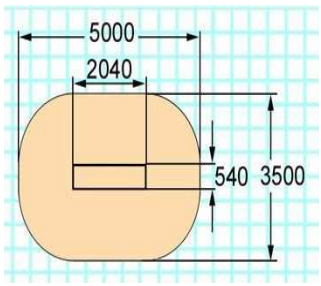
6708



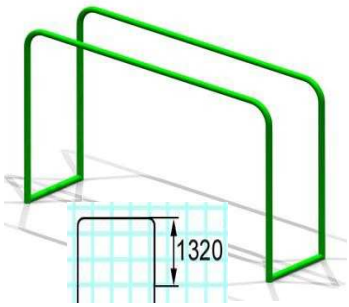


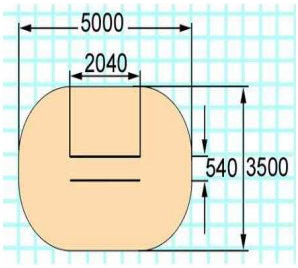
6719



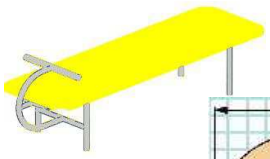


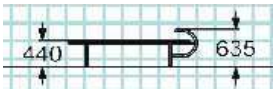
6720

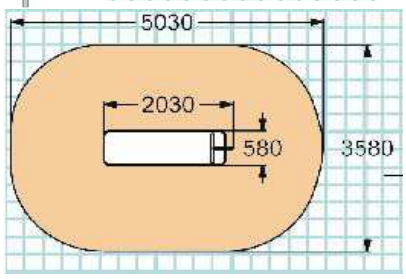




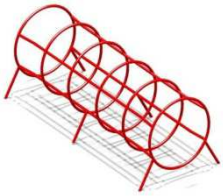
6721

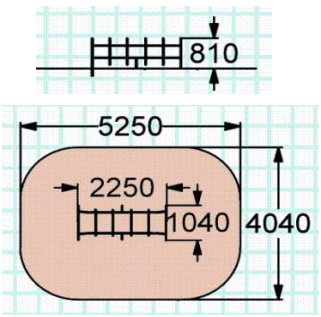




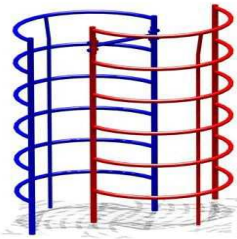


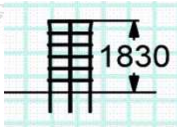
6722

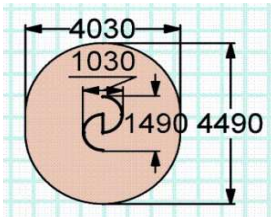




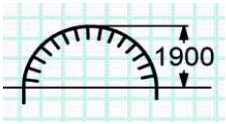
6723

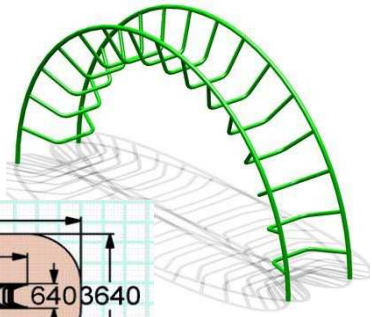


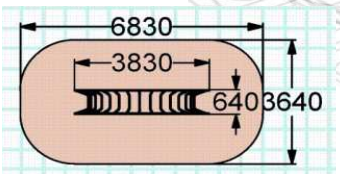




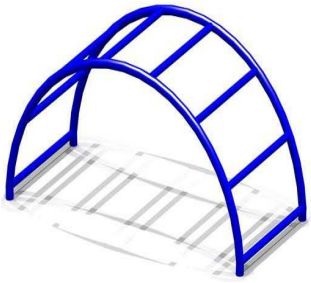
6727

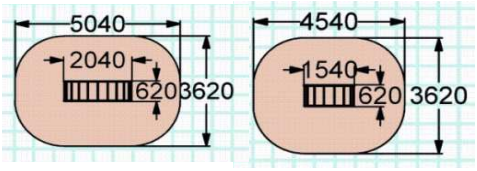


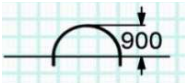


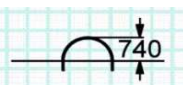


6728 **6730**

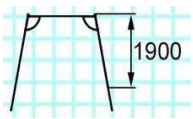


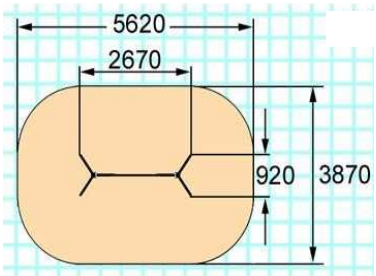




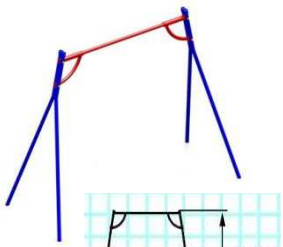


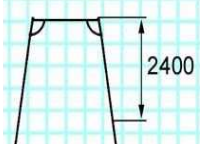
6733

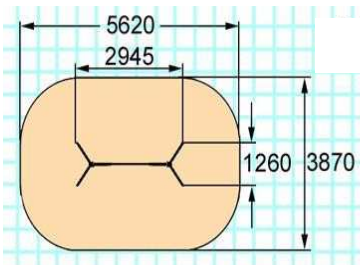




6734

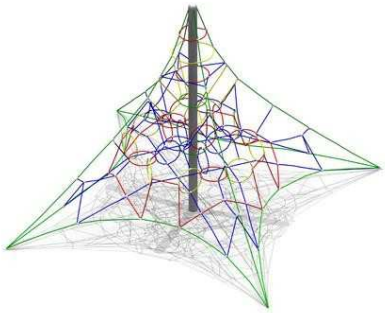


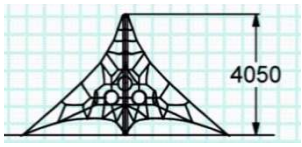


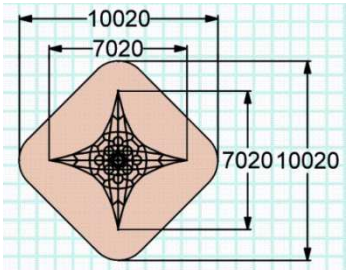


Lanové prvky

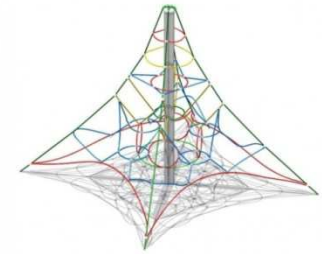
7001 Sieť Pyramída

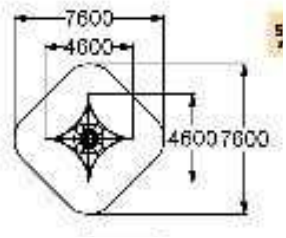


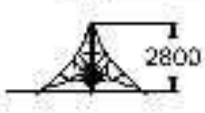




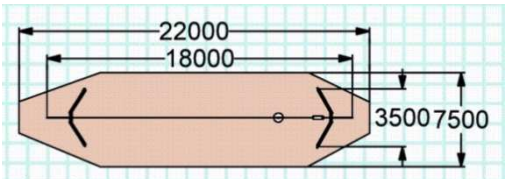
7002 Sieť Pyramída malá







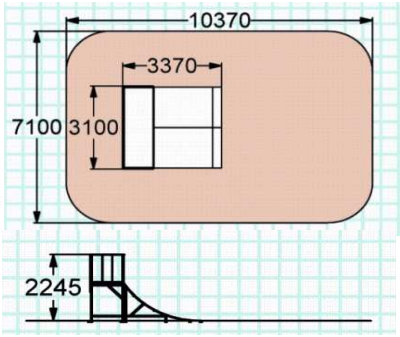
7101 Lanovka

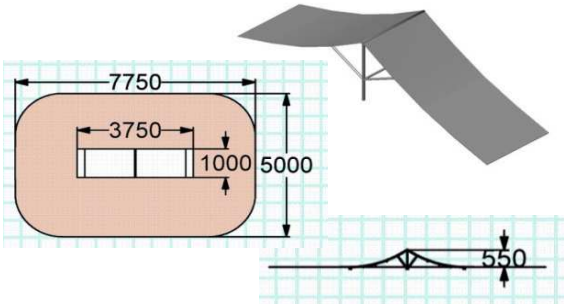


Skate rampy

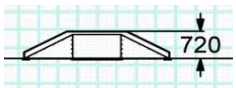
7600

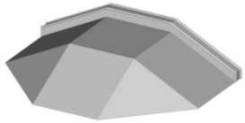
7603



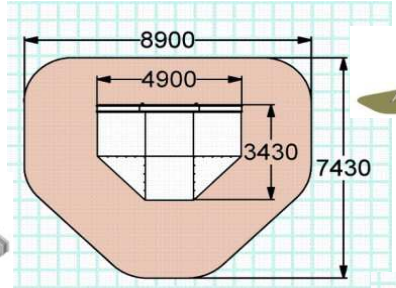


7605

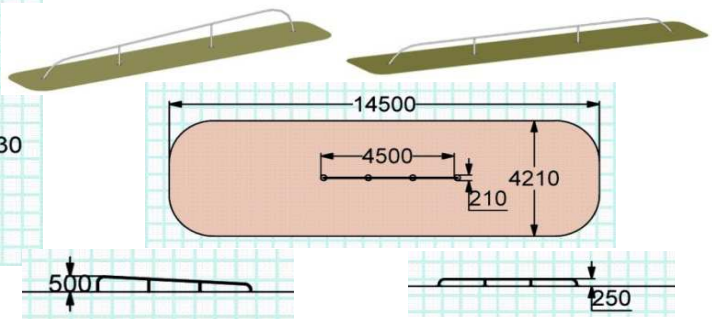




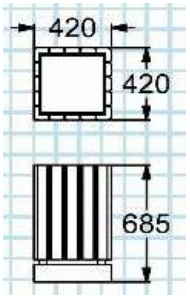
7615



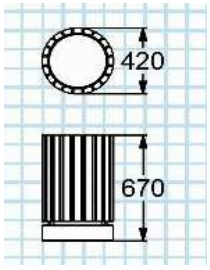
7616



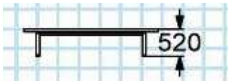
1311 Odpadkový kôš

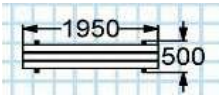


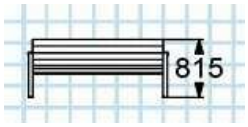
1312 Odpadkový kôš



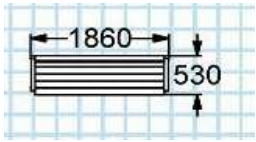
2202 Lavička



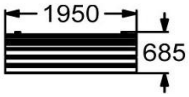




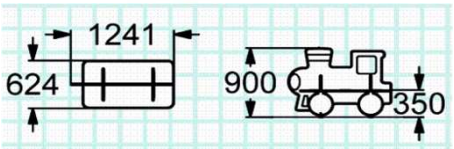
2205 Lavička



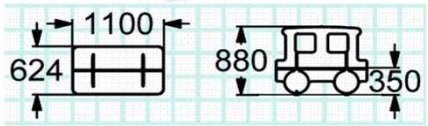
2307 Lavička



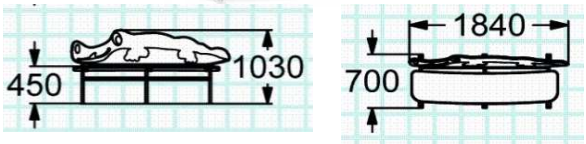
2401 Lavička Lokomotíva



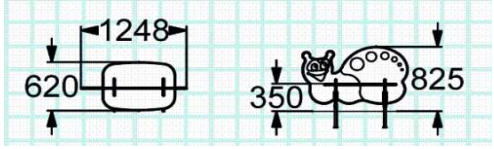
2402 Lavička Vagón



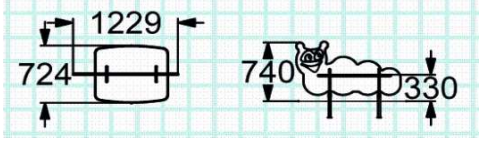
2403 Lavička Krokodíl



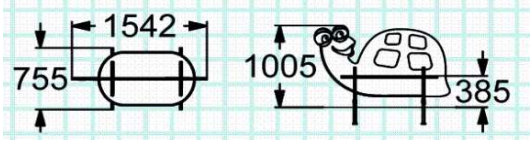
2404 Lavička Slimák



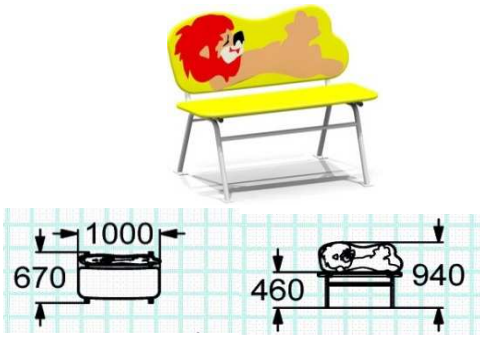
2405 Lavička Červík



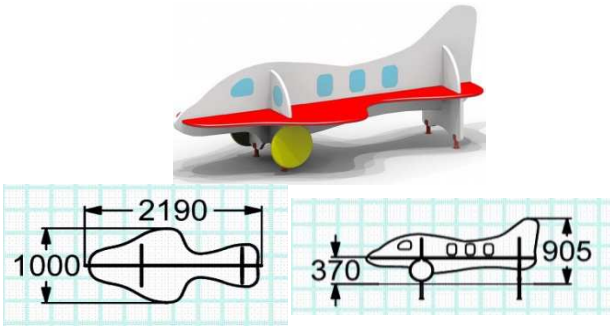
2406 Lavička Korytnačka



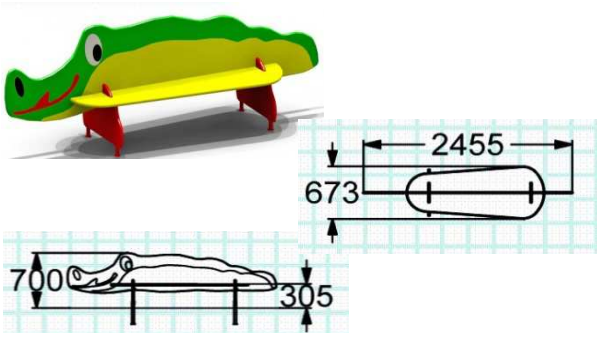
2407 Lavička Lev



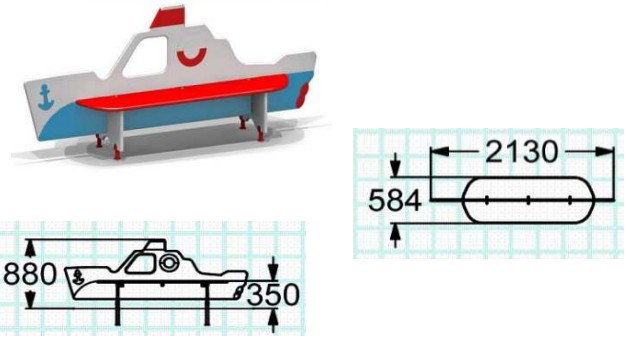
2408 Lavica Lietadlo



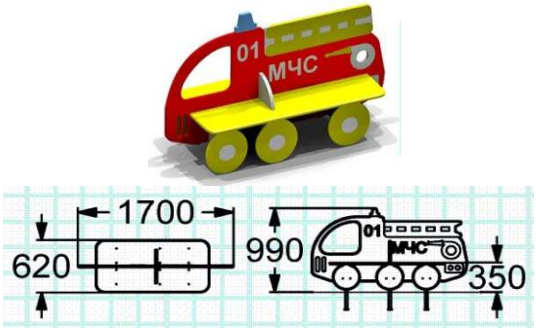
2409 Lavica Krokodíl



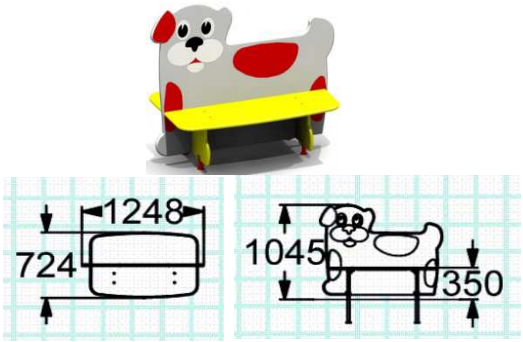
2410 Lavica Loď



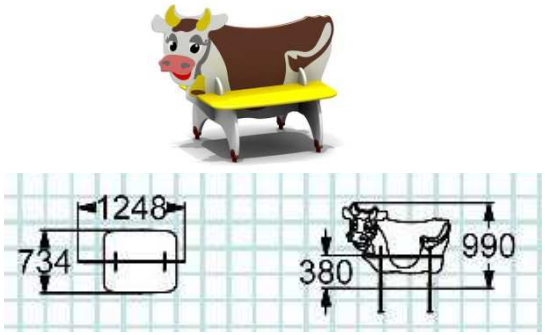
2411 Lavička Auto



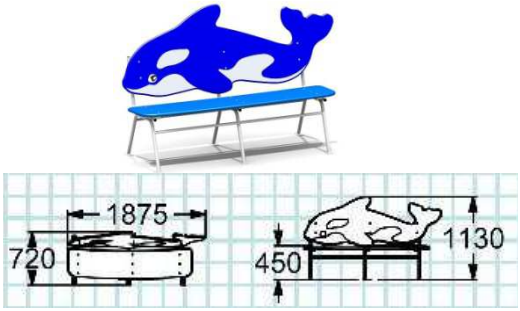
2412 Lavička Psík



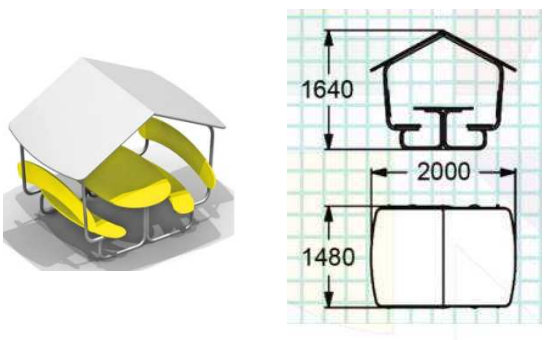
2413 Lavička Krava



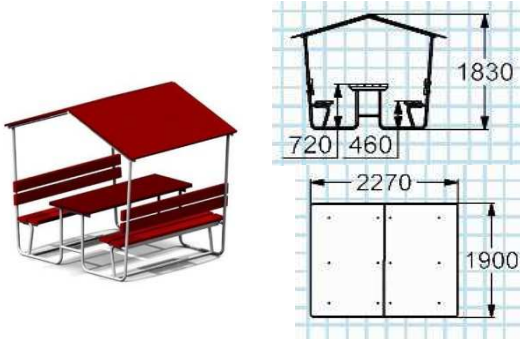
2414 Lavička Delfín



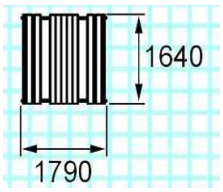
2603 Stôl okr. s lavicami a strieškou

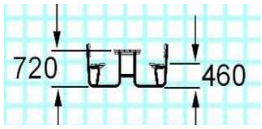


2604 Stôl s lavicami a strieškou

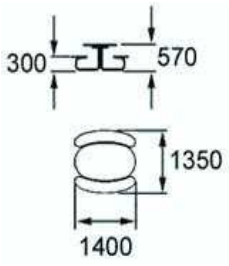


2605 Stôl s lavicami

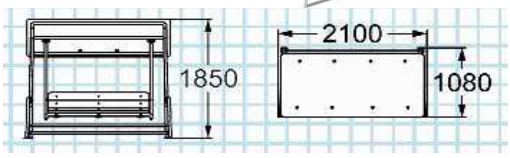




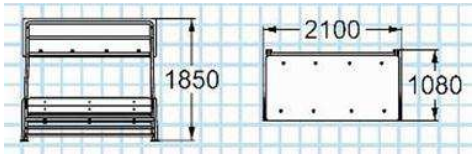
2606 Stôl okrúhly s lavicami *STN EN 1176*



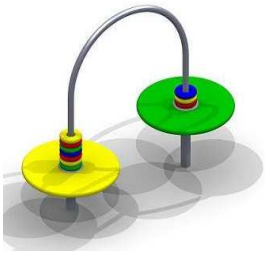
2607 Visiaca lavica

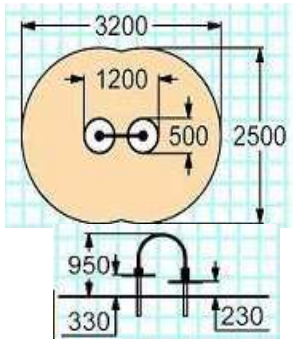


2608 Lavica s markízou

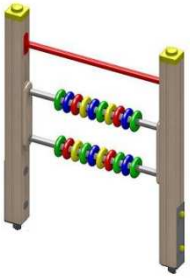


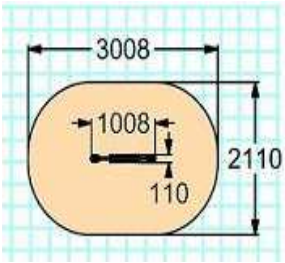
4231 Počítadlo so stolíkmi

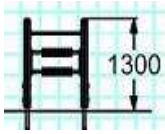




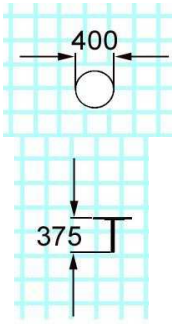
4232 Počítadlo



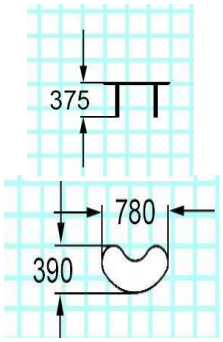




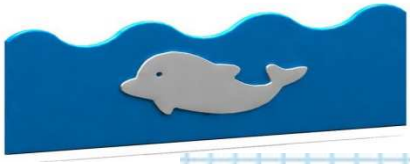
4291 Stolík

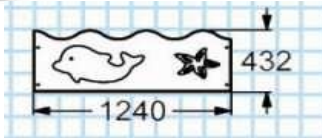


4292 Stolík

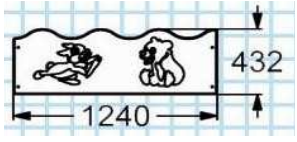


4293 Oplotenie ihriska



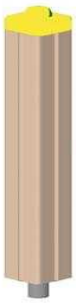


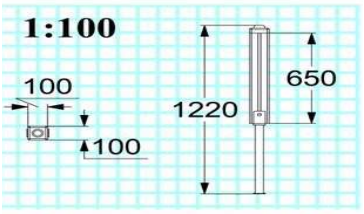
4294 Oplotenie ihriska



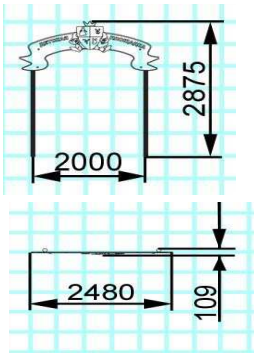
STN EN 1176

4295 Stlpík

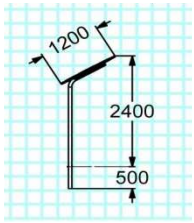




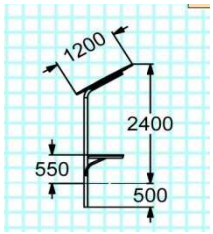
4299 Vstupná brána



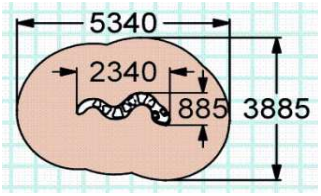
4296 Kvet

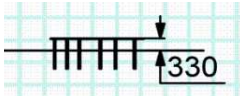


4297 Kvet s listom

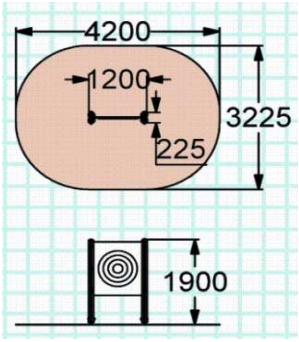


6199 Had

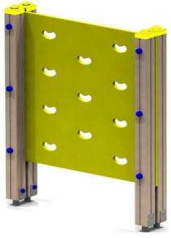


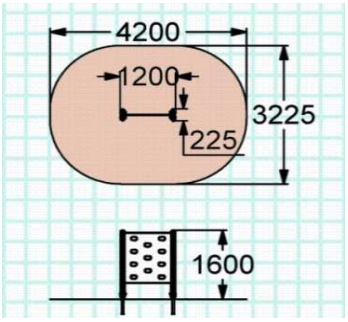


6725 Terč

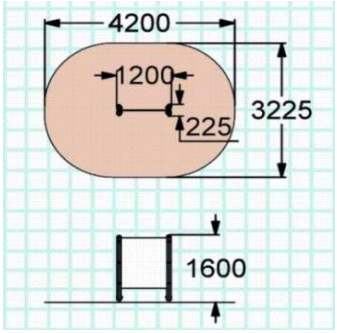


6726 Lezecká stena

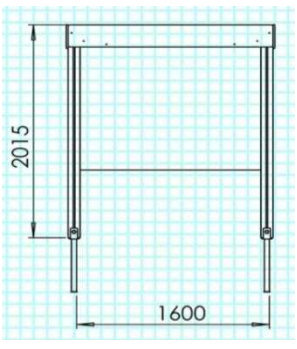




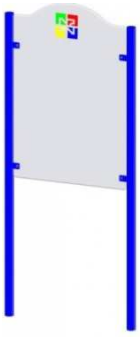
6738 Školská tabuľa

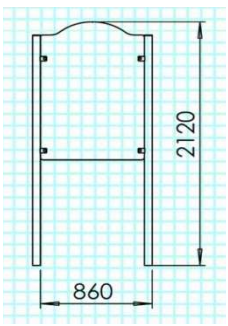


6801 Informačná tabuľa

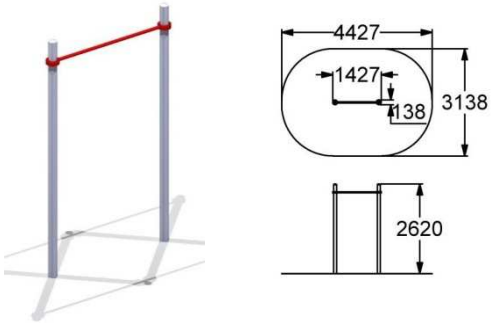


6802 Informačná tabuľa

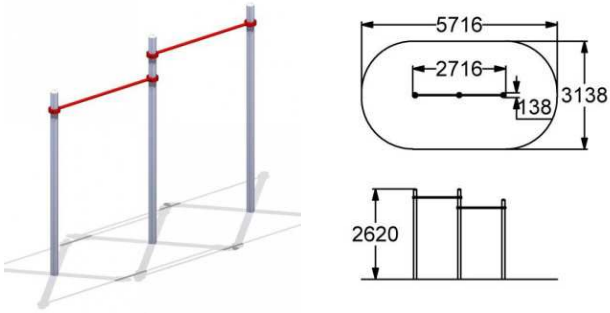




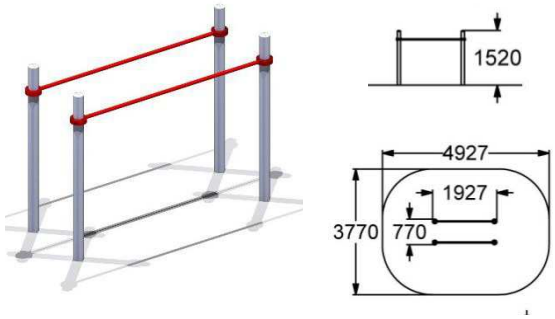
6440 Hrazda jednoduchá



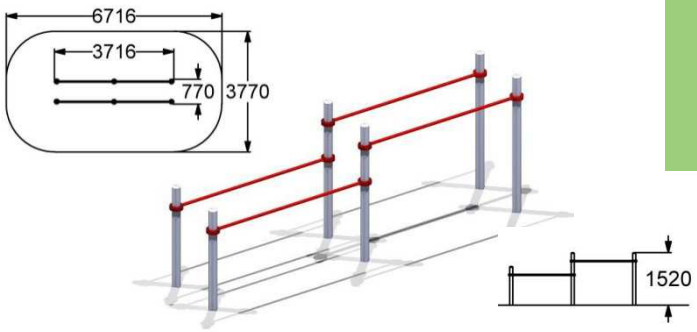
6441 Hrazda dvojitá



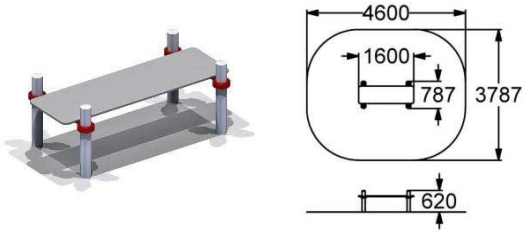
6442 Bradlá



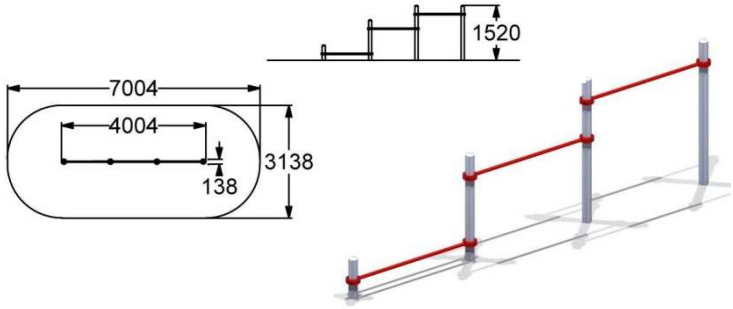
6443 Bradlá dvojité



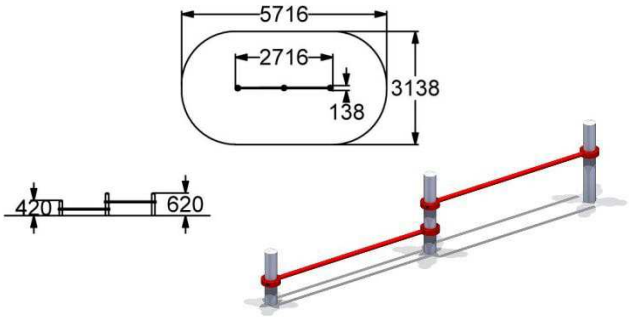
6444 Lavica



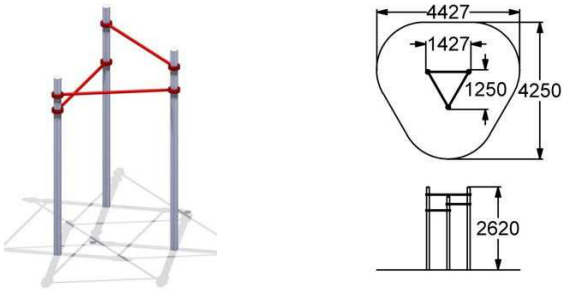
6445 Hrazdy trojúrovňové



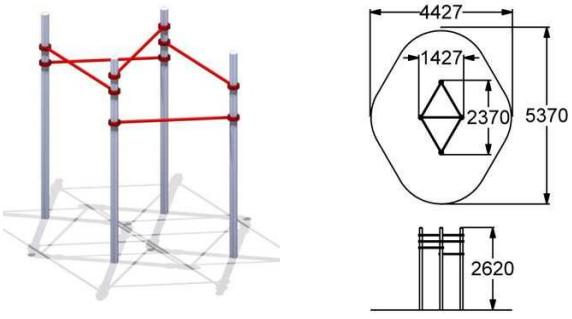
6446 Hrazdy dvojúrovňové



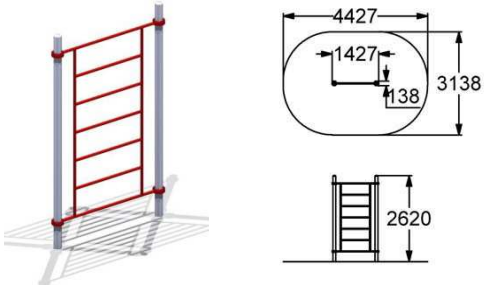
6447 Hrazdy trojuholník



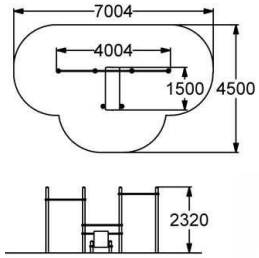
6448 Hrazdy kosoštvorec

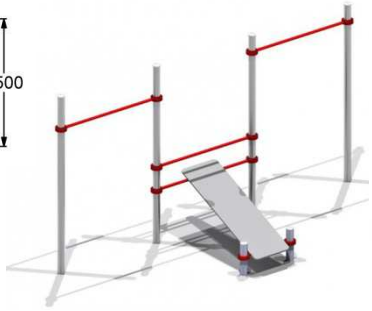


6449 Rebriny

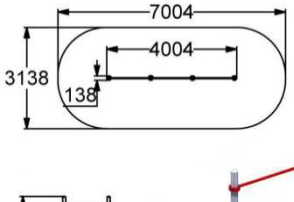


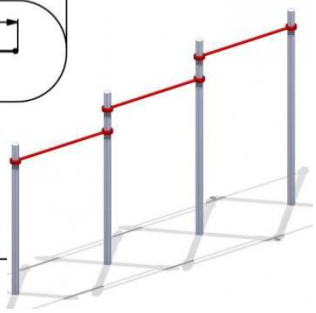
6450 Zostava hrazdy + lavica



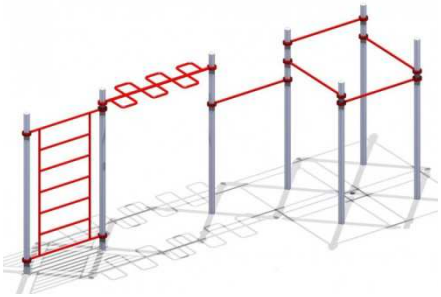


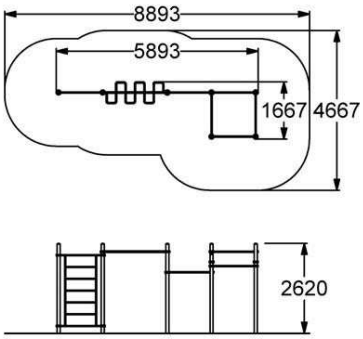
6451 Hrazda trojitá



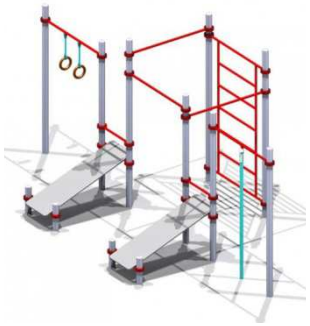


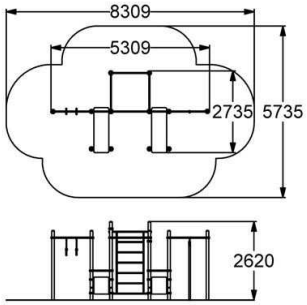
6452 Zostava 1



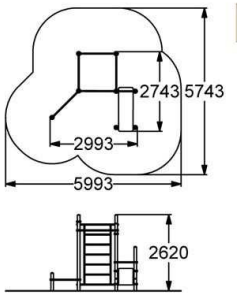


6453 Zostava 2

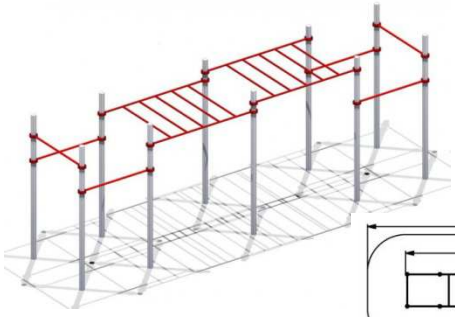


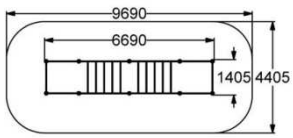


6454 Zostava 3

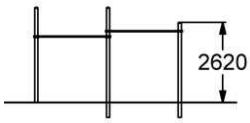


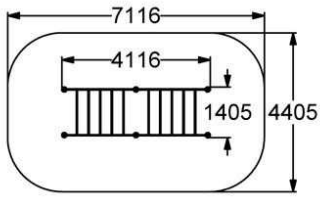
6458 Zostava 4



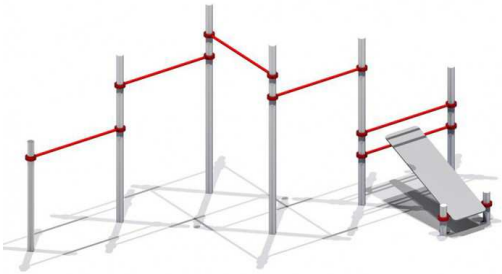


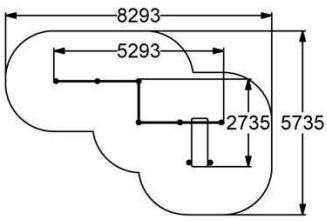
6459 Zostava 5

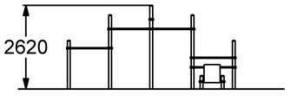




6460 Zostava 6







Trnava

Senec

Oščadnica

Žilina

Senec

Brezno

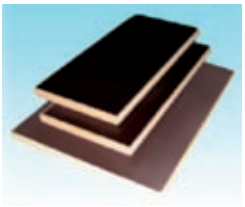
Dubnica n. Váhom

MATERIÁLY POUŽÍVANÉ PRI VÝROBE HRACÍCH PRVKOV PRE DETSKÉ IHRISKÁ

Pri výrobe prvkov pre detské ihriská KSIL sa používajú kvalitné materiály a moderné výrobné technológie a postupy. Použitie takýchto materiálov síce ovplyvňuje konečnú cenu výrobku, zároveň však má rozhodujúci vplyv na dlhú životnosť produktov KSIL a ich odolnosť nielen voči poveternostným vplyvom, ale aj extrémnemu zaťaženiu a vandalizmu. Našim cieľom je ponúknuť prevádzkovateľom detských ihrísk produkt, ktorého kvalitu ocenia aj po niekoľkoročnom používaní.

Borovicové drevo zo severských oblastí Ruska sa používa pri výrobe lepených, ako aj celistvých komponentov. Použité drevo je pred spracovaním podrobené dôkladnej kontrole kvality a špeciálnej úprave sušením na nábytkársku vlhkosť. Výroba nosných stĺpov z dreva, lepeného z viacerých vrstiev dáva tomuto komponentu mimoriadnu konštrukčnú pevnosť a stabilitu. Veľký dôraz je kladený na konečné obrúsenie hrán všetkých detailov.

Brezová preglejka je vynikajúcim konštrukčným materiálom. Pri výrobe prvkov sa používa tá najkvalitnejšia vodovzdorná preglejka. Dlhá životnosť a robustnosť tohto materiálu je využívaná nielen pri dekoratívnych prvkoch, ale aj pre zvýšenie stability a životnosti drevených konštrukcií. Zvláštna pozornosť je venovaná opracovaniu všetkých hrán z tohto materiálu do oblúkového profilu a jeho následnému obrúseniu.



Všetky **kovové detaily** sú bez ostrých hrán, so zaoblenými rohmi a dôkladne opracovaným zvarmi. Jednotlivé kovové prvky sú upravované podľa ich určenia galvanicky, elektrozinkovaním a povrchovo upravené práškovými farbami. Na výrobu šmýkačiek sa používa nerezový plech.

Plasty používané pri výrobe jednotlivých komponentov sú vyrobené z polykaronátu, polyetylénu a polypropylénu. Tento materiál sa vyznačuje svojou farebnosťou a stálosťou. Komponenty sú vyrábané vstrekovaním, alebo rotačným tvarovaním. Je to na rozdiel od vrstvených plastov na báze sklolaminátov, homogénny materiál. Takúto výrobu umožňujú len špičkové priemyselné zariadenia a technológie.

Polypropylénové **laná** sú vyrábané špeciálne pre detské ihriská a športové zariadenia. Pletené laná s kovovou výstužou sa používajú pre siete hracích prvkov, rebríky, závesné mostíky. Ich opracovanie a trvácnosť sú základom pre bezpečnú hru detí i odolnosť voči vandalizmu.

Náterové hmoty – materiál, ktorý výrazne ovplyvňuje nielen vonkajší vzhľad, ale aj dlhodobú životnosť hracích prvkov. Neustála kontrola kvality výrobných postupov a vstupných materiálov vo výrobe, umožňuje vybrať tie najkvalitnejšie farby renomovaných európskych výrobcov, určené pre detské ihriská. V prevážnej miere sú to dvojkomponentné farby, odolné voči poveternostným vplyvom, náročným klimatickým podmienkam a ultrafialovému žiareniu. Povrch elementov dostáva pri tom sympatický plastický vzhľad v pastelových farbách.

DEXTRADE KSIL

Dovoz náhradných dielov, autorizovaný servis a kontroly:
DEXTRADE Žilina, s.r.o., Kamenná 9, 010 01 ŽILINA

www.ksil.sk

Dovoz a distribúcia v SR:
DEXTRADE Žilina, s.r.o.
Kamenná 9
010 01 Žilina
tel. 041/7055 101
e-mail: info@dextrade.sk

2008 Copyright © design - Polygrafia Gunenberg, www.polygrafia.eu