

Apacz

- Gravity **14.5 BLG**
- ABV ---
- IBU **53**
- SRM **7.3**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.3 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15.9 liter(s)**
- Total mash volume **21.2 liter(s)**

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pale ale golden promise	4 kg (75.5%)	--- %	7
Grain	Pilzneński	1 kg (18.9%)	--- %	5
Grain	Karmelowy Cara	0.3 kg (5.7%)	--- %	30

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Equinox	30 g	50 min	13.1 %
Boil	Ahtanum	30 g	15 min	3.4 %
Boil	Cascade	20 g	7 min	7.7 %
Boil	Cascade	20 g	0 min	7.7 %
Dry Hop	Cascade	40 g	---	7.7 %
Dry Hop	Equinox	20 g	---	13.1 %
Dry Hop	Ahtanum	20 g	---	3.4 %