

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 % |