

APA

- Gravity **11.8 BLG**
- ABV ---
- IBU **34**
- SRM **6.1**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **24 liter(s)**
- Trub loss **10 %**
- Size with trub loss **26.4 liter(s)**
- Boil time **60 min**
- Evaporation rate **15 %/h**
- Boil size **30.4 liter(s)**

Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15.5 liter(s)**
- Total mash volume **20.6 liter(s)**

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|--------------------|----------------|-------|-----|
| Grain | Strzegom Pale Ale | 4.5 kg (87.4%) | 79 % | 6 |
| Grain | Przeniczny | 0.4 kg (7.8%) | 79 % | 14 |
| Grain | Strzegom Karmel 30 | 0.25 kg (4.9%) | 75 % | 30 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|---------|--------|--------|------------|
| Boil | Cascade | 30 g | 60 min | 7.2 % |
| Boil | Cascade | 20 g | 30 min | 7.2 % |
| Boil | Cascade | 10 g | 5 min | 7.2 % |
| Boil | Cascade | 5 g | 1 min | 7.2 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|----------------------|------|--------|--------|------------------|
| FM52 Amerykański Sen | Ale | Liquid | 100 ml | Fermentum Mobile |