

American Bitter

- Gravity **10.9 BLG**
- ABV ---
- IBU **52**
- SRM **9.6**
- Style **Extra Special/Strong Bitter (English 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 **12 liter(s)**
- Total mash volume **16 liter(s)**

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|-----------------------------|--------------|-------|-----|
| Grain | Strzegom Pale Ale | 3.8 kg (95%) | 79 % | 6 |
| Grain | Caramel/Crystal Malt - 120L | 0.2 kg (5%) | 72 % | 200 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|---------|--------|--------|------------|
| Boil | Apollo | 15 g | 60 min | 17 % |
| Boil | Cascade | 20 g | 10 min | 6 % |
| Boil | Citra | 20 g | 5 min | 12 % |
| Boil | Summit | 25 g | 3 min | 17 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|-------------|------|------|--------|------------|
| Safale S-05 | Ale | Dry | 11.5 g | Safale |